

SERVICE MANUAL

FISHER

PH490L

Portable Hi-Fi Audio System
(EUROPE)



THE FIRST NAME IN HIGH FIDELITY

CONTENTS

Specifications	3
Mechanical Adjustments	4 – 7
Electrical Adjustments	8 – 11
Tuner Adjustments	12 – 14
Dial Cord Stringing	15
Parts List	16 – 28
Exploded View (Cabinet -1)	29
Exploded View (Cabinet -2)	30
Exploded View (Chassis -1)	31
Exploded View (Chassis -2)	32
Exploded View (Chassis -3)	33
Exploded View (Chassis -4)	34
Exploded View (Chassis -5)	35
Exploded View (Chassis -6)	36
Exploded View (Speaker L)	37
Exploded View (Speaker R)	38
IC & Transistor Lead Identification	39
IC Equivalent Circuit & Block Diagram	40
Tuning Indicator P.C.Board	41
Record Volume P.C.Board	42
Function Switch P.C.Board	43
LED Meter P.C.Board	44
Lamp P.C.Board	45
Microphone Amplifier P.C.Board	46
Power Supply P.C.Board	47
Operation Indicator P.C.Board	48
Sub Control P.C.Board	49
Power Amplifier P.C.Board	50
ASF Switch P.C.Board	51
Frequency EQ Control P.C.Board	52
Control P.C.Board (Top View)	53 & 54
Control P.C.Board (Bottom View)	55 & 56
Radio Tuner P.C.Board (Top View)	57 & 58
Radio Tuner P.C.Board (Bottom View)	59 & 60
PreAmplifier P.C.Board (Top View)	61 & 62
PreAmplifier P.C.Board (Bottom View)	63 & 64
Wiring Diagram (Amplifier)	65 & 66
Wiring Diagram (Control)	67 & 68
Speaker Box Schematic Diagram	69

SPECIFICATIONS

Power Source	
AC	120/200 V
DC	15V (UM-1, HP 2, D Cell, Monozellen, R20) x 10
Output Power	12.5 x 2W (10% THD, DC)
Power Consumption	32W
Current Consumption (at VR min.)	
Record mode	500mA
Playback mode	450mA
Fast Forward mode	450mA
Rewind mode	450mA
Recording System	AC Bias
Erasing System	AC Erasing
Tape Speed	1-7/8 ips. \pm 3%
Wow & Flutter	0.055% WRMS
Fast Forward Time	100sec. (with C-60 cassette tape)
Rewind Time	100sec. (with C-60 cassette tape)
Frequency Response (Overall, DOLBY : OFF)	
Fe2O3	50Hz - 12.5kHz
CrO2	40Hz - 14kHz
Metal	40Hz - 15kHz
Erase Ratio (Overall)	
Fe2O3	50dB
Signal to Noise Ratio (DOLBY: OFF)	
Fe2O3	50dB
Metal	53dB
Crosstalk (with Fe2O3)	
Track to Track	70dB
Channel Separation (with Fe2O3)	48dB
Hum & Noise	-66dBs
Input Sensitivity and Impedance	
MIC	0.5mV/3.9k-ohm
PHONO	3mV/90k-ohm
LINE IN	100mV/68k-ohm
Output Level and Impedance	
LINE OUT	775mV/3.3k-ohm
EXT. Speaker	8ohm
Headphone	200ohm
Oscillation Frequency	
1	65kHz
2	70kHz
3	67kHz
Frequency Range	
MW	525 - 1,605kHz
SW1	2.3 - 7.3MHz
SW2	7.3 - 23MHz
FM	88 - 108MHz

—Specifications subject to change without notice.—

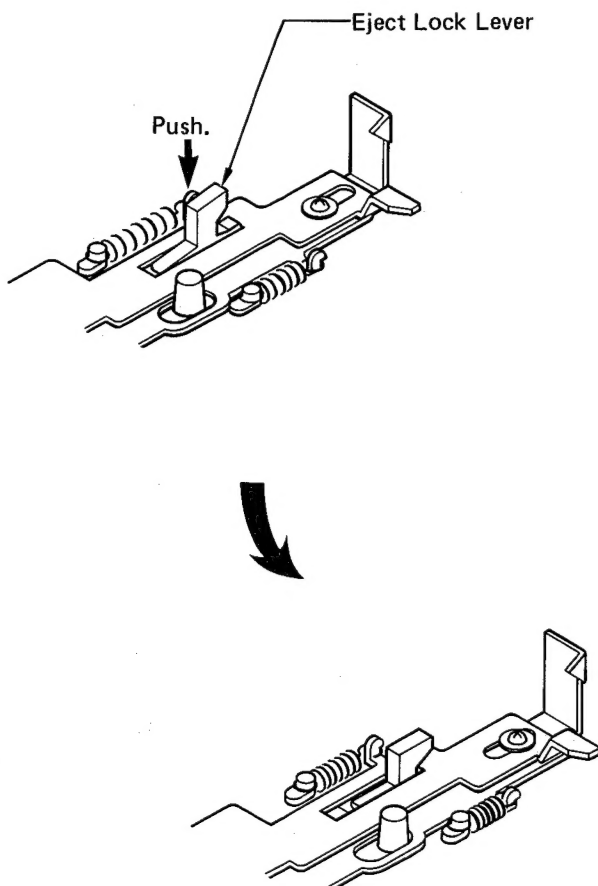
MECHANICAL ADJUSTMENTS

EQUIPMENT REQUIRED

- Cassette-type Torquemeter (100g-cm/160g-cm)
- Silicone Grease (SHIN-ETSU SILICONE: KS-64)
- Round-nose Pliers
- Plus Screwdriver
- Paint or glue

GENERAL REMARKS

- Before adjusting the mechanism of the unit, clean the tape contacting surfaces with a soft cloth soaked in alcohol. Trouble may occur because of oil and grease stains.
- The belts must be kept clean while an adjustment or repair work is performed.
Silicone grease (SHIN-ETSU SILICONE KS-64) is applied to the Wind Belt to protect it from abrasion.
- Silicone grease is not applied to the wind belt for servicing.
- If the Pinch Roller or belt has quality deterioration such as scratches, replace it with a new one.
- This mechanism does not function when power is not supplied and any one of the buttons is pressed.
- The mechanism stops functioning soon when the cassette holder is opened and one of the select buttons (except for the Pause button) is pressed because the Eject Plate and the Lock Plate are locked by the Eject Lock Lever.
If the mechanism is required to function under this condition, push the Eject Lock Lever as illustrated, so that the Lever is released and the mechanism functions normally.



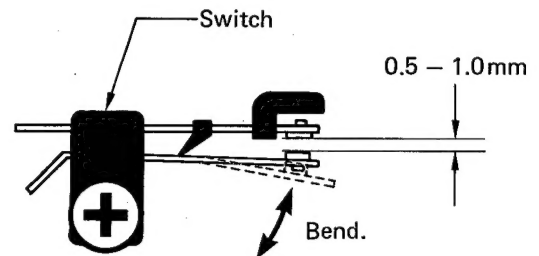
Position Adjustment of Leaf Switches

This model has the following eight leaf switches. Checking and adjustment for each switch shall be conducted in accordance with each adjusting items. The unit should be set in the stop mode at each adjustment.

- * Trigger Switch
- * Motor Switch
- * Muting Switch
- * Pause Switch
- * OSC Switch
- * ASF Switch
- * Cue Switch
- * Review Switch

NOTE:

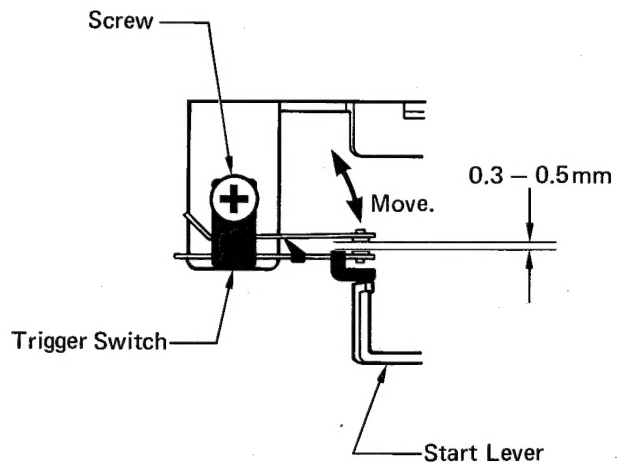
The clearance of the switch contacts should be 0.5 – 1.0mm when the switch is not mounted on the unit. If not, adjust the clearance by carefully bending the contacts.



1. Trigger Switch

This switch works as a trigger to make the mechanism function. When one of the select buttons (except for the Record button) is pressed, the trigger switch is turned on by the Start Lever, so that the Motor starts rotating. After that, this switch is turned off when the mechanism has completely finished its function.

- * Check that the Trigger Switch touches the Start Lever and the clearance of the switch contacts in 0.3 – 0.5mm.

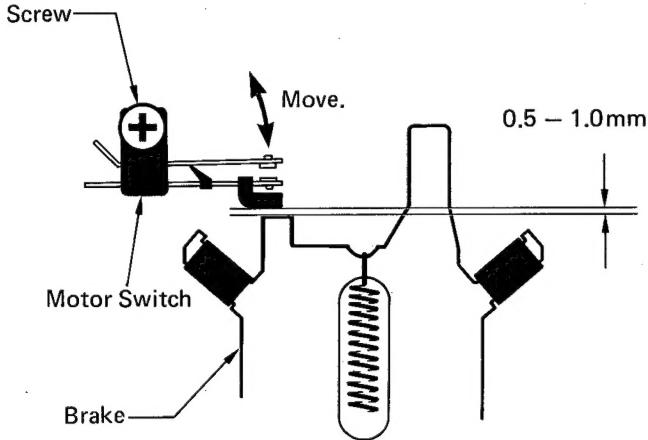


MECHANICAL ADJUSTMENTS (Continued)

2. Motor Switch

This switch is connected in parallel to the Trigger Switch. The driving motor rotates the Flywheel and the rotational force transferred by the Actuate Gear makes the mechanism function. Then, the motor switch is turned on by the brake.

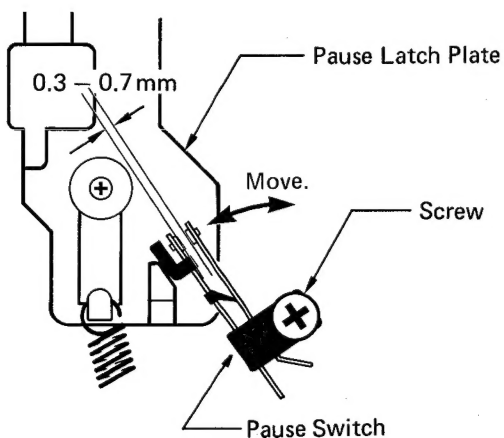
* Check that the clearance between the Motor Switch and Brake is 0.5 – 1.0mm.



3. Pause Switch

This switch is used to light the LED which indicates the pause mode and is turned on or off by the Pause Latch Plate when the Pause button is pressed.

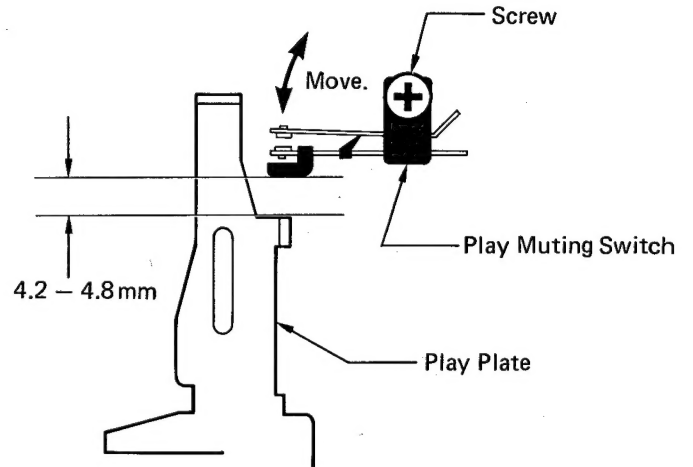
* Check that the clearance of the switch contacts is 0.3 – 0.7mm with the Pause Switch in contact with the Pause Latch Plate as illustrated.



4. Muting Switch

This switch is turned on by the Play Plate when the unit is set in the recording or playback mode, and it turns off the muting circuit.

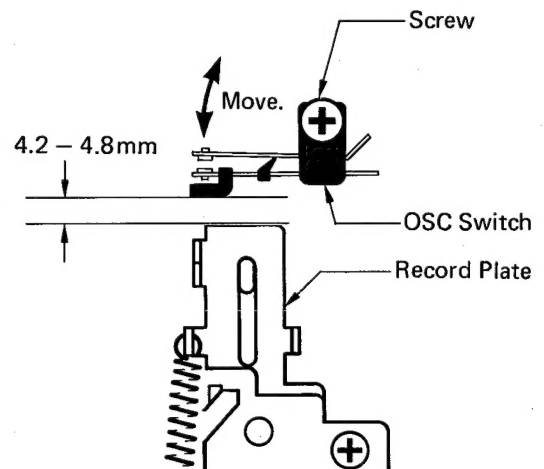
* Check that the clearance between the Play Muting Switch and the Play Plate is 4.2 – 4.8mm as illustrated.



5. OSC Switch

This switch is turned on by the Record Plate when the unit is set in the recording mode, turns on the OSC circuit, and lights up the LED indicating the record mode.

* Check that the clearance between the OSC Switch and the Record Plate is 4.2 – 4.8mm as illustrated.

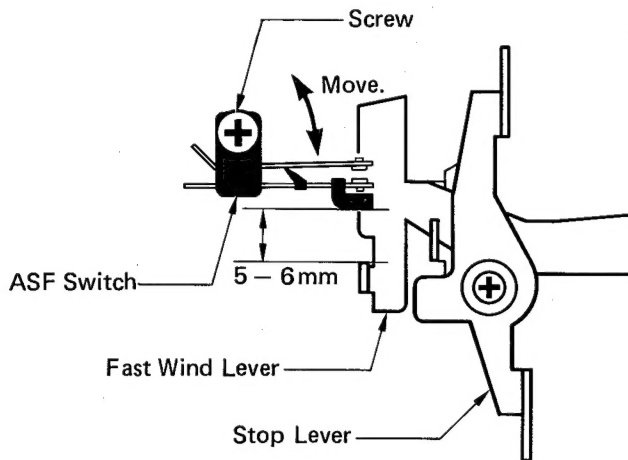


MECHANICAL ADJUSTMENTS (Continued)

6 ASF Switch

This switch is turned on by the Fast Wind Lever when the unit is set in the cue or review mode by pressing the F.FWD or Rewind button in the playback mode. It also passes current into the muting circuit and the solenoid. The ASF circuit is functioning and the transistor Q620 becomes conductive at this time.

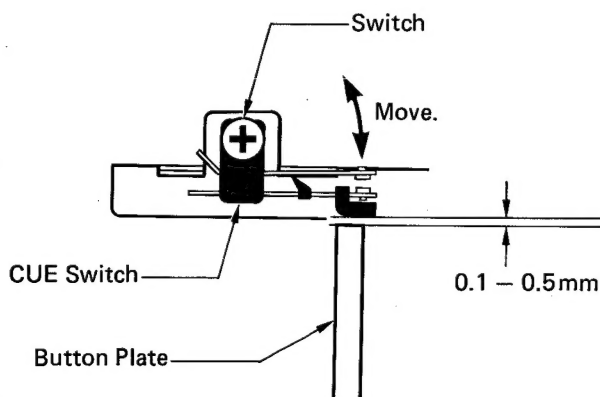
- * Check that the clearance between the ASF switch and the Fast Wind Lever is 5 – 6mm as illustrated.



7. Cue Switch

This switch is kept on while pressed when the unit is set in the cue mode by pressing the F.FWD button in the playback mode. The solenoid keeps the unit in the cue mode as long as this switch is turned on.

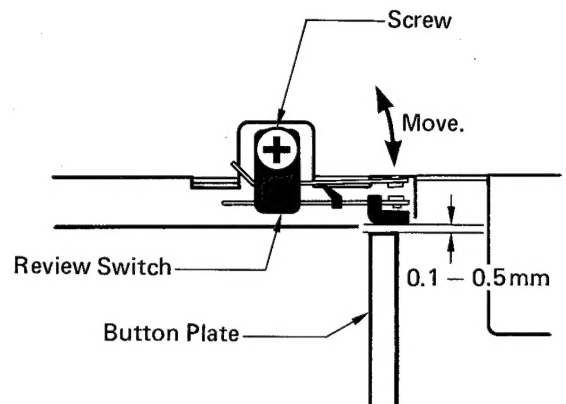
- * Check that the clearance between the Cue Switch and the Button Plate is 0.5 – 1 mm as illustrated.



8. Review Switch

This switch is kept on while pressed when the unit is set in the review mode by pressing the Rewind button in the playback mode. The Solenoid keeps the unit in the review mode as long as this switch is turned on.

- * The clearance between the Review Switch and the Button Plate is 0.5 – 1.0mm as illustrated.

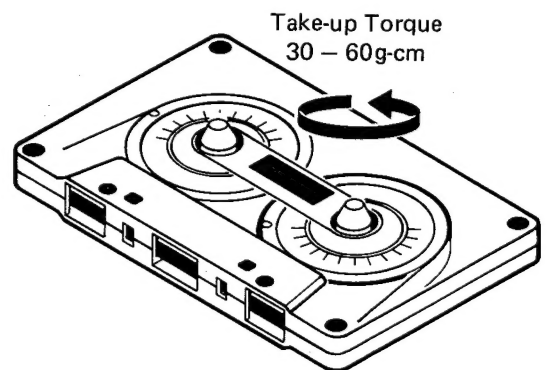


Loosen the screws fastening each switch and move the switches to the specified positions if position adjustments are required.

After adjustment, tighten the screws and secure the switches with paint or glue.

Take-up Torque

1. Insert a cassette-type torquemeter (100g-cm) into the cassette compartment and set the unit in the playback mode. Then, check that the take-up torque is 30 – 60g-cm.
2. If not, replace the Friction with a new one.

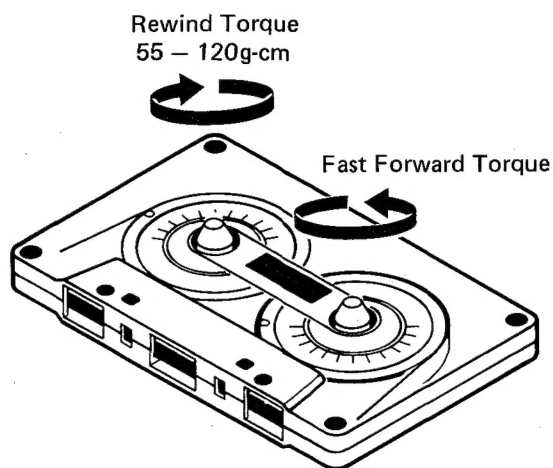


Cassette-type Torquemeter

MECHANICAL ADJUSTMENTS (Continued)

F.FWD and Rewind Torques

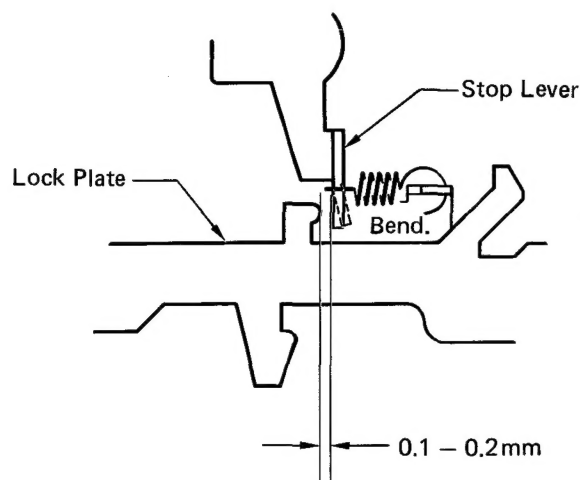
1. Insert a cassette-type torquemeter into the cassette compartment and measure the fast forward and rewind torques. Check that each torque is 55 – 120g-cm.



2. If more than the specified torque is obtained, apply a little amount of silicone grease (Example: KS-64) into the groove of the belt engaged in the Fast Wind Gear, rotate the Fast Wind Gear, and apply silicone grease to the Wind Belt.
3. If less than the specified torque is obtained, replace the Wind Belt with a new one and apply a little amount of silicone grease (Example: KS-64) to the Wind Belt in the same manner as in item 2.

Multifunction of Automatic Shut-off Mechanism

1. If the unit is set in the stop mode while the tape is running, check that the clearance between the Stop Lever and the Lock Plate is 0.1 – 0.2mm as illustrated.
2. If necessary, adjust the clearance by bending the Stop Lever as illustrated.

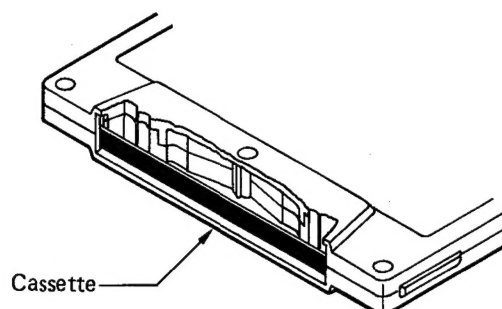


3. When the unit still malfunctions after the above adjustment, replace the Take-up Reel with a new one.

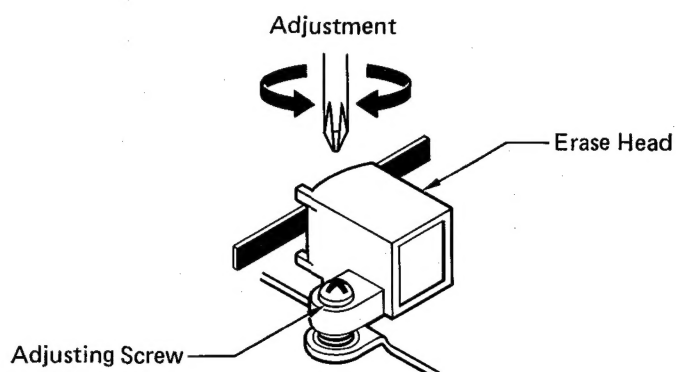
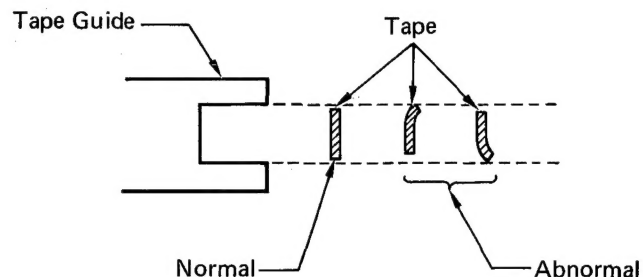
Tape Running Condition Adjustment

Whenever the Erase Head has been removed or replaced, perform the tape running condition adjustment as follows:

1. Cut the cassette half (Example: TDK C-120) as illustrated and use it for the adjustment.



2. Insert the cassette half into the cassette compartment. Then, turn the adjusting screw while the tape is running, so that the tape does not curl along the Tape Guide of the Erase Head as illustrated.



3. If necessary, adjust the screw until the tape is exactly centered in the Tape Guide of the Erase Head.
4. After the adjustment, secure the adjusting screw with paint or glue.

ELECTRICAL ADJUSTMENTS

EQUIPMENT REQUIRED

- Audio Signal Generator
- Attenuator
- Frequency Counter
- VTVM (2 sets)
- Dummy Load (47k-ohm)
- Dualtrace Synchroscope
- DC Voltage Regulator
- Test Tapes
 - * 3kHz Test Tape (Example: TEAC MTT-111) for Tape Speed Adjustment
 - * 10kHz Test Tape (Example: TEAC MTT-114) for Head Azimuth Adjustment
 - * Test Tape for DOLBY Calibration Level (Example: TEAC MTT-150) in Playback Gain Adjustment
- Test Tapes for Recording and Playback Operations
 - * Normal Tape (Example: TDK AC-222)
 - * Chromium Dioxide Tape (Example: TDK AC-512)
 - * Metal Tape (Example: TDK AC-711)
- Alignment Tool

Before the Electrical Adjustment, set the unit and measuring instruments as follows:

- * Function Switch TAPE
- * Input Select Switch LINE IN
- * Mode Switch STEREO
- * Record Switch MANUAL
- * Dolby NR Switch OFF
- * Beat Switch 3
- * Tape Select Switch NORMAL
- * Record Level Controls Maximum
- * Audio Signal Generator Output 1 kHz, 0dB (1 V)
- * Voltage Regulator Output 15V

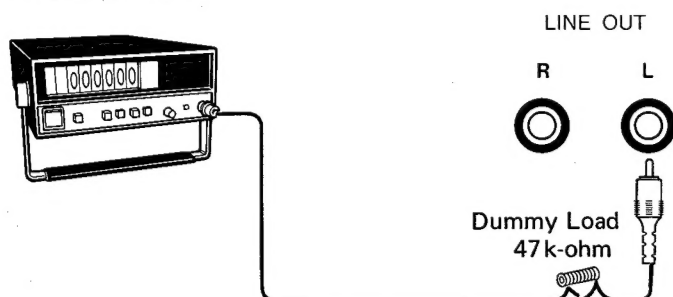
NOTE:

1. Supply 15V DC to the unit from the Voltage Regulator at the adjustments.
2. The Electrical Adjustment should be performed in the order as described below.

TAPE SPEED ADJUSTMENT

1. Connect the frequency counter to the left or right channel LINE OUT as illustrated. Then, insert a 3kHz test tape (Example: TEAC MTT-111) into the cassette compartment.

Frequency Counter

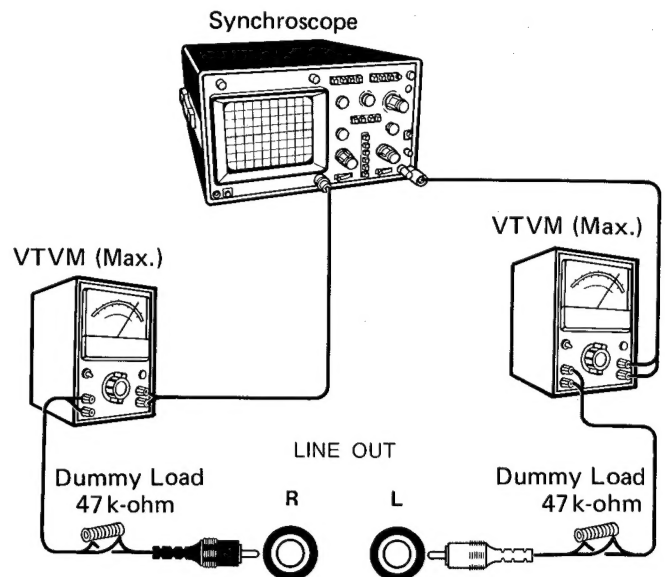


2. Adjust the tape speed by slowly turning the potentiometer inside the motor until the frequency counter reads 3,000Hz ($\pm 3\%$).

HEAD AZIMUTH ADJUSTMENT

1. Remove the cassette compartment lid from the unit and connect the dualtrace synchroscope and the VTVM to both channel LINE OUT as illustrated. Then, set the dualtrace synchroscope as follows:

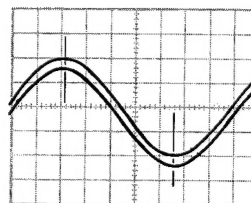
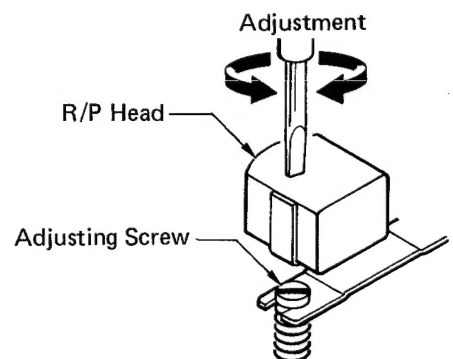
- * MODE CHOP (chopped)
- * SOURCE INT (internal), CH1 or CH2
- * SWEEP MODE AUTO (automatic)



NOTE:

Adjust the field on the synchroscope with the VOLT. ADJ. and TIME ADJ.

2. Insert a 10kHz test tape (Example: TEAC MTT-114) into the cassette compartment. While playing back the test tape, turn the azimuth adjusting screw until the wave forms of the right and left channels are superimposed and set to optimum at maximum reading on the VTVM.



3. After the adjustment, secure the adjusting screw with paint or glue.

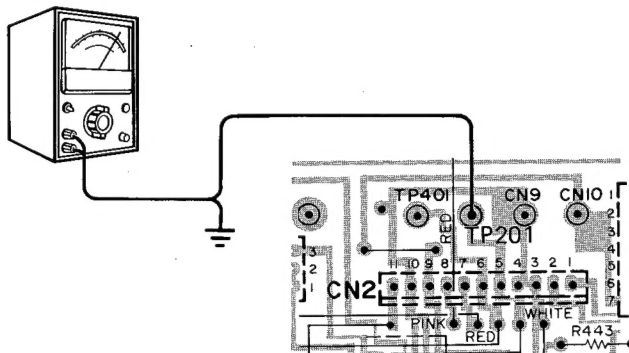
ELECTRICAL ADJUSTMENTS (Continued)

PLAYBACK GAIN ADJUSTMENT

LEFT CHANNEL

1. Connect the VTVM to the test point TP201 as illustrated and insert a test tape for Dolby Calibration Level (Example: TEAC MTT-150) into the cassette compartment.

VTVM 580mV



2. Check that the VTVM reads 580mV for the output of the left channel while playing back the test tape.
3. If necessary, adjust the output to the specified one by turning the potentiometer (P201) while the test tape is played back.

RIGHT CHANNEL

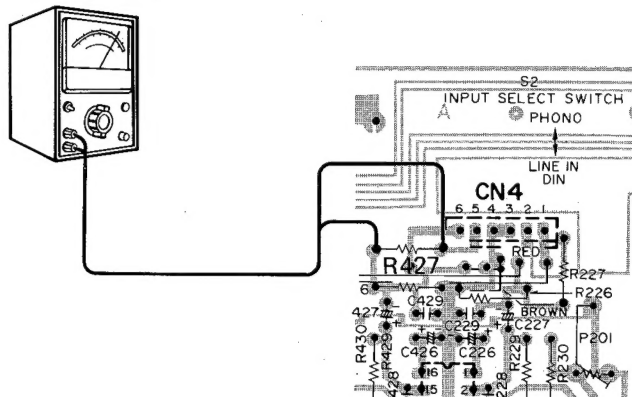
Connect the VTVM to the test point TP401. Then, adjust the potentiometer (P401) for the right channel by following the same procedure as in LEFT CHANNEL.

2. Insert a cassette tape into the cassette compartment and set the unit in the recording mode.
3. Turn the core of the oscillation transformer (T601) with an alignment tool until the frequency counter reads 67.8kHz (± 50 Hz).
4. Set the Tape Select Switch to "METAL" and adjust the potentiometer (P203) until the VTVM reads 8.5mV ($850\mu A$) with the unit in the recording mode.

RIGHT CHANNEL

Connect the VTVM across the resistor (R427) as illustrated and adjust the potentiometer (P403) by following the same procedure as in LEFT CHANNEL until the VTVM reads 8.5mV ($850\mu A$).

VTVM
8.5mV ($850\mu A$)

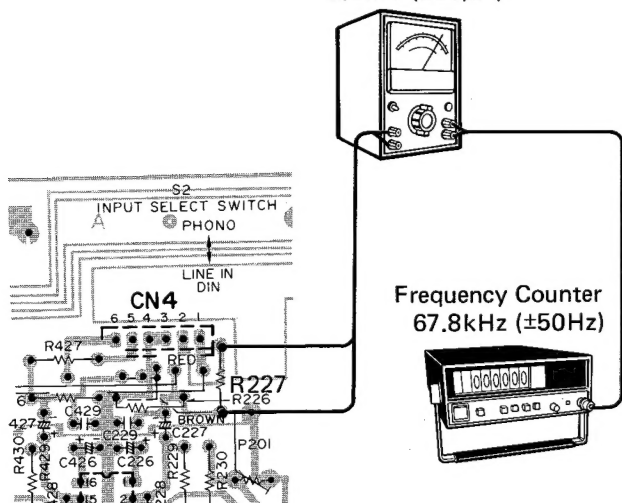


OSCILLATION FREQUENCY AND RECORDING BIAS ADJUSTMENT

LEFT CHANNEL

1. Connect the VTVM across the resistor R227 and the frequency counter to the output terminals of the VTVM as illustrated.

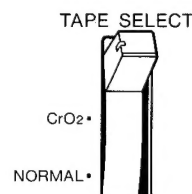
VTVM
8.5mV ($850\mu A$)



RECORD & PLAY FREQUENCY RESPONSE ADJUSTMENT

• Metal Tape

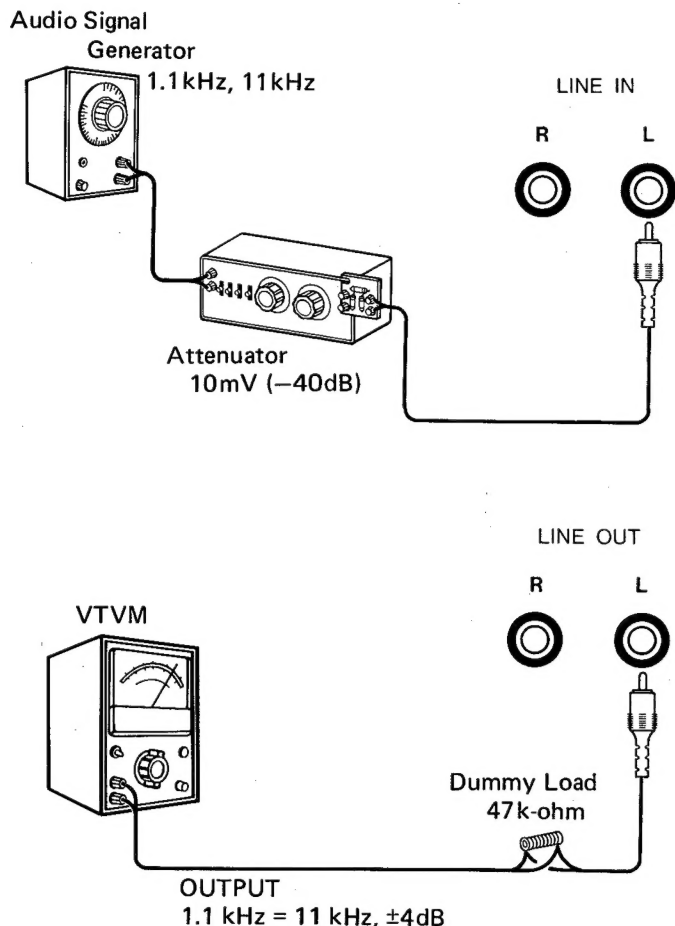
Set the Tape Select Switch to "METAL" and insert a metal tape (Example: TDK AC-711) into the cassette compartment. Then, make the adjustment by the following procedures.



ELECTRICAL ADJUSTMENTS (Continued)

LEFT CHANNEL

1. Connect the audio signal generator and the attenuator to the left channel LINE IN, and the VTVM to the LINE OUT as illustrated.



2. Alternately record the 1.1kHz and 11kHz signals from the audio signal generator at 10mV (-40dB) on the tape several times.
3. While playing back the recorded signals, check that the 11kHz signal output is identical to the 1.1kHz signal output or the deviation is ± 4 dB on the VTVM.
4. If necessary, adjust the output by turning the potentiometer (P203) and re-check the output of each signal by playing back the signals after recording operation of the signals.
5. Repeat the above adjustment until the specified output is obtained.

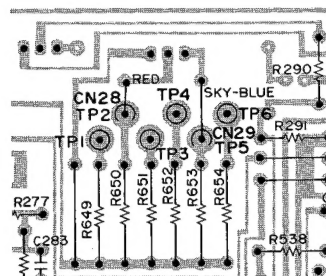
RIGHT CHANNEL

Connect the audio signal generator and the attenuator to the right channel LINE IN, and the VTVM to the right channel LINE OUT. Then, adjust the potentiometer (P403) for the right channel by following the same procedure as in LEFT CHANNEL.

Chromium Dioxide Tape

Set the Tape Select Switch to "CrO₂" and insert a chromium dioxide tape (Example: TDK AC-512) into the cassette compartment.

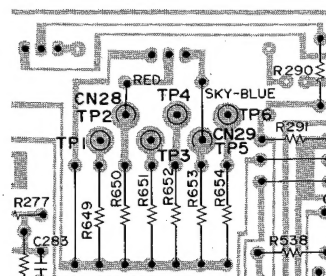
- * Connect the red wire connector (CN28) to each of the three pins (TP1, TP2, and TP3) in that order. Record a signal on the tape and play it back by following the same procedures as in "Metal Tape". Then, select one of the pins, so that the specified playback output is obtained.



Normal Tape

Set the Tape Select Switch to "NORMAL" and insert a normal tape (Example: TDK AC-222) into the cassette compartment.

- * Connect the sky-blue wire connector (CN29) to each of three pins (TP4, TP5, and TP6) in that order. Record a signal on the tape and play it back by following the same procedures as in "Metal Tape". Then, select one of the pins, so that the specified playback output is obtained.



NOTE:

If the specified output was not obtained in the record & playback frequency response adjustment for chromium dioxide or normal tapes, repeat the adjustment beginning with the metal tape.

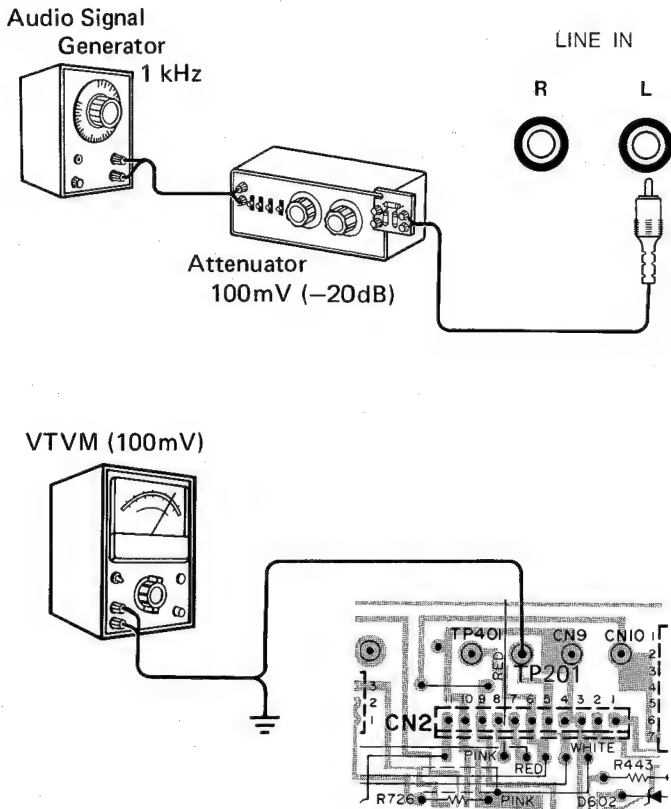
ELECTRICAL ADJUSTMENTS (Continued)

RECORD & PLAYBACK GAIN ADJUSTMENT

Set the Tape Select Switch to "METAL" and insert a metal tape (Example: AC-711) into the cassette compartment. Then, perform the adjustment by the following procedure.

LEFT CHANNEL

1. Connect the audio signal generator and the attenuator to the left channel LINE IN, and the VTVM to the test point TP201 as illustrated.



2. Record the 1 kHz signal at 100mV (-20dB) from the audio signal generator on the tape.
3. While playing back the recorded signal, check that the signal output is 100mV on the VTVM.
4. If necessary, adjust the potentiometer (P202) and re-check the reading of the VTVM by playing back the signal after the recording operation for the signal.
5. Repeat the above adjustment until the specified output is obtained.

RIGHT CHANNEL

Connect the audio signal generator and the attenuator to the right channel LINE IN, and the VTVM to the test point TP401. Then, adjust the potentiometer (P402) for the right channel by following the same procedure as in LEFT CHANNEL.

BATTERY CHECK LEVEL ADJUSTMENT

1. Supply 11V DC from the Voltage Regulator to the external power jack and observe the VU/Battery meter by continuously pressing the Battery Check Button.
2. Keeping the Battery Check Button pressed, turn the potentiometer (P601) until the red LEDs on the right channel side light up. Then, slowly turn the potentiometer (P601) until the red LEDs go out.

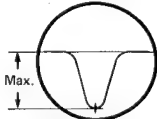
TUNER ADJUSTMENT

EQUIPMENT REQUIRED

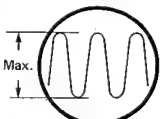
- AM Standard Signal Generator
- FM Standard Signal Generator
- Generator Scope
- Stereo Signal Generator
- Loop Antenna
- Dummy Antenna (300 ohm, Balanced Type) for FM
- Dummy Antenna (10p and 30 ohm) for SW
- VTVM
- Digital Multimeter
- Frequency Counter
- Distortion Meter
- Oscilloscope
- Dummy Load (8 ohm)
- Alignment Bar
- Before performing the adjustment, set the Function Select Switch to "RADIO", the Mode Switch to "MONO", and FM Mute Switch to "OFF".

LW ALIGNMENT

Standard test frequency 400 Hz and Modulation 30% at AM

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of IF for AM	Connect standard loop antenna to output terminal of gene-scope. Place bar antenna 60 cm away from loop antenna.	Connect input terminal of gene-scope to detector output. (Connector CN25-3 or CN25-4)	460 kHz	Low End	T7, T8, and T9	Obtain symmetrical curve and maximum amplitude. 
2	Calibration of Tuning Range	Connect standard loop antenna to output of signal generator. Place bar antenna 60 cm away from loop antenna.	Connect VTVM with 4 ohm dummy load and oscilloscope to Ext. speaker terminal.	145 kHz			T6
3	Tuning Range			365 kHz	High End	TC6	
4	Adjustment of Tracking			170 kHz	170 kHz	L14-1 (LW bar ant.)	
5				310 kHz	310 kHz	TC3	
6	Repeat the above adjustments.						

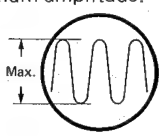
MW ALIGNMENT

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT				
1	Calibration of Tuning Range	Connect standard loop antenna to output of signal generator. Place bar antenna 60 cm away from loop antenna.	Connect VTVM with 8 ohm dummy load and oscilloscope to Ext. speaker terminal.	515 kHz	Low End	T5	Obtain sine-wave of 400 Hz and maximum amplitude. 
2				1670 kHz	High End	TC5	
3	Adjustment of Tracking			600 kHz	600 kHz	L14-2 (MW bar ant. coil)	
4				1400 kHz	1400 kHz	TC2	
5	Repeat the above adjustments.						

TUNER ADJUSTMENT (Continued)

SW ALIGNMENT

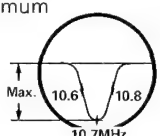
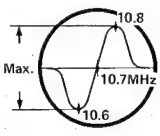
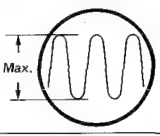
DUMMY ANTENNA 30 ohm/10p

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT				
1	Calibration of	Connect signal generator to antenna terminals (TP11 or TP12, and TP13) through dummy antenna for SW. .	Connect VTVM with 8 ohm dummy load and oscilloscope to Ext. speaker terminal.	5.7 MHz	Low End	L11	Obtain sine-wave of 400 Hz and maximum amplitude. 
2	Tuning Range			18.7 MHz	High End	TC4	
3	Adjustment of			6.5 MHz	6.5 MHz	L10	
4	Tracking			17 MHz	17 MHz	TC1	
5	Repeat the above adjustments.						

* Use a screwdriver with plastic grip for all adjustments.

FM ALIGNMENT

Standard test frequency 400 Hz and deviation 22.5 kHz

Step	Alignment	Connections		Frequency of Signal Generator	Tuning Dial Setting	Adjustments	Remarks
		INPUT	OUTPUT				
1	Calibration of IF	Place output of gene-scope on Trap Coil (L4).	Connect input terminal of gene-scope to detector output terminal. (Connector CN25-3 or CN25-4)	10.7 MHz	Low End	T1	Obtain symmetrical curve maximum amplitude. 
2						T2 (Black core)	Obtain S curve and maximum amplitude. 
3	Calibration of	Connect signal generator to antenna terminal (TP11 and TP12) through dummy antenna. (300 ohm, Balanced Type)	Connect VTVM with 8 ohm dummy load and oscilloscope to Ext. speaker terminal.	87.5 MHz	High End	L5	Obtain sine-curve and maximum amplitude. 
4	Tuning Range			109 MHz		PTC3	
5	Adjustment of			90 MHz	90 MHz	L1 and L3	
6	Tracking			106 MHz	106 MHz	PTC1 and PTC2	
7	Adjustment of FM Tuning Meter	Connect signal generator to antenna terminal (TP11 and TP12) through dummy antenna. (300 ohm, Balanced Type)	Connect the Digital Voltmeter to Test Points (TP14 and TP15).	98 MHz	98 MHz	T2	Set output level of signal generator to 20 – 26dB. Adjust T2 until the Digital Voltmeter reads 0±10mV.
8	Repeat the above adjustments.						

* Use a screwdriver with plastic grip for all adjustments.

TUNER ADJUSTMENT (Continued)

FM MPX (Multiplex) ADJUSTMENT

Prior to the adjustment, set the switches as follows:

- Function Select Switch RADIO
- Mode Select Switch FM
- Band Select Switch STEREO
- FM Mute Switch OFF
- Frequency Control "0" (zero) position

19kHz (V.C.O.) ADJUSTMENT

1. Connect the frequency counter to the thirteenth pin (Test Point TP16) in IC2 (LA3370).
2. Adjust the potentiometer (P2) until the oscillation frequency of IC2 becomes 19kHz (± 20 Hz).

CHANNEL SEPARATION ADJUSTMENT

1. Connect the stereo signal generator and the FM standard signal generator through the 300 ohm dummy antenna (balanced type) to the antenna terminals (TP11 and TP12).

2. Connect the VTVM with 4 ohm dummy load, distortion meter, and oscilloscope to the external speaker jack of the left channel.
3. Adjust the input measuring instruments as follows:
 - **Stereo Signal Generator**
 - * Pilot Signal 7.5kHz dev. (Modulation 10%)
 - * Stereo Signal 67.5kHz dev. for main signal (Modulation 90%)
 - * Modulation Frequency 400Hz
 - **FM Standard Signal Generator**
 - * Signal Generator Frequency 98MHz
 - * Signal Generator Output 66dB μ
4. Set the tuning frequency to 98MHz.
5. Adjust the potentiometer (P1) by following the chart below.

Step	Alignment	Connections		Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT			
1	FM Stereo Signal Separation	Pilot and Sub channel signals of Stereo SG —ON	Connect measuring instruments to L channel Ext. speaker terminal.	98MHz	Dial of FM SG	Maximize amplitude of Oscilloscope and VTVM reading with minimum distortion.
2		R channel and Pilot signals of Stereo SG —ON			P1	Minimize amplitude of Oscilloscope and VTVM reading.
3	Repeat the above adjustments.					

6. Connect the measuring instruments to the external speaker jack of the right channel and perform the adjustment by following the chart below.

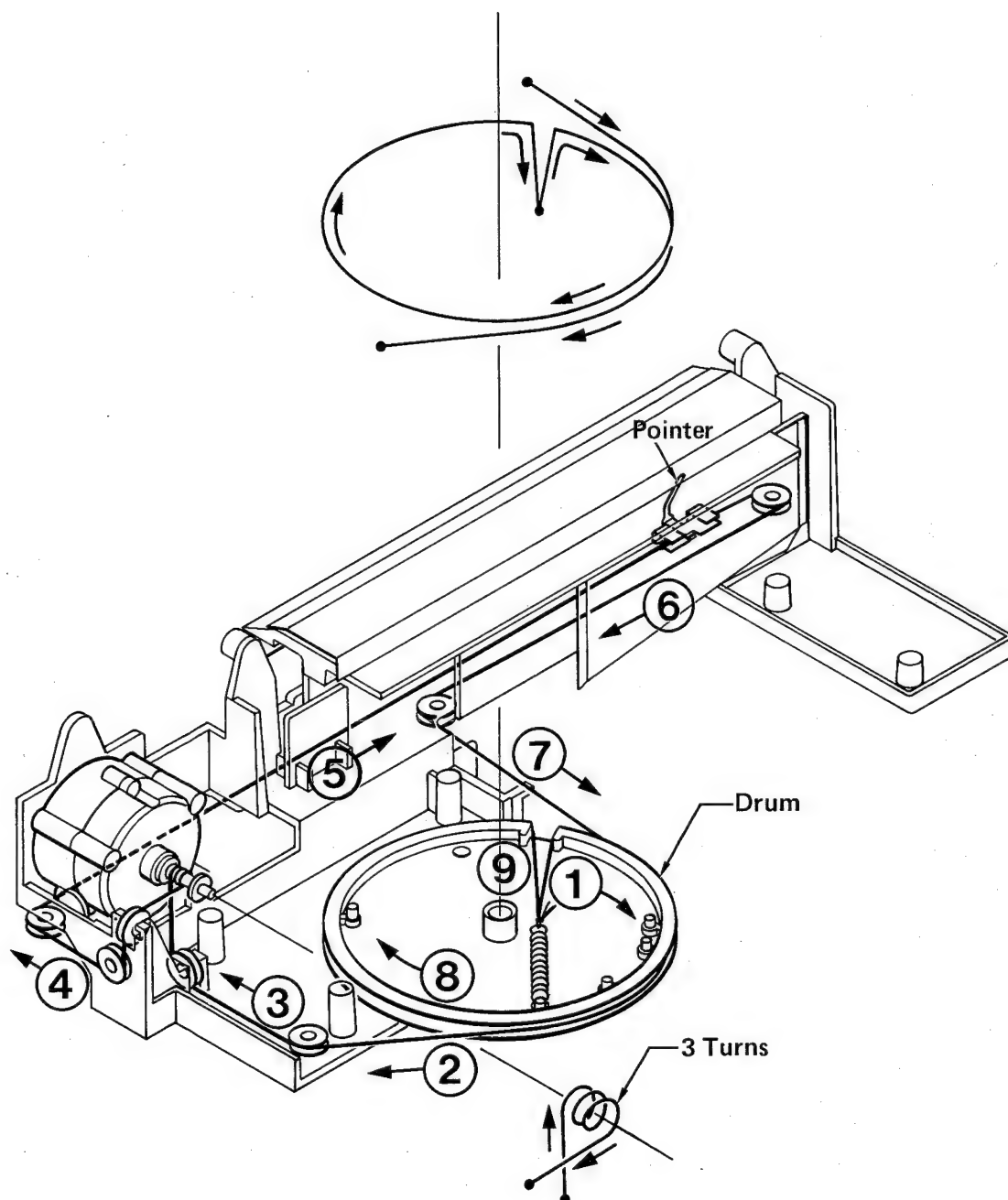
Step	Alignment	Connections		Tuning Dial Setting	Adjustment	Remarks
		INPUT	OUTPUT			
1	FM Stereo Signal Separation	Pilot and Sub channel signals of Stereo SG —ON	Connect measuring instruments to R channel Ext. speaker terminal.	98MHz	Dial of FM SG	Maximize amplitude of Oscilloscope and VTVM reading with minimum distortion.
2		L channel and Pilot signals of Stereo SG —ON			P1	Minimize amplitude of Oscilloscope and VTVM reading.
3	Repeat the above adjustments.					

7. Repeatedly perform the adjustments in Items 5 and 6 to minimize the signal leakage for both right and left channels. Then, reduce the difference between each channel separation by adjusting the potentiometer (P1).

DIAL CORD STRINGING


Pointer Start Position






F M	88	92	96	100
S W	6.0	7.0	8.0	10.0
	49m	41m	31m	
MW	540	600	700	900
L W	150	180	220	260



PARTS LIST

PRODUCT SAFETY NOTICE

PRODUCT SAFETY SHOULD BE CONSIDERED WHEN A COMPONENT REPLACEMENT IS MADE IN ANY AREA OF AN UNIT. COMPONENTS INDICATED BY A MARK  IN THIS PARTS LIST AND THE SCHEMATIC DIAGRAM SHOW COMPONENTS WHOSE VALUE HAS SPECIAL SIGNIFICANCE TO PRODUCT SAFETY. IT IS PARTICULARLY RECOMMENDED THAT ONLY PARTS SPECIFIED ON THE FOLLOWING PARTS LIST BE USED FOR COMPONENT REPLACEMENT POINTED OUT BY THE MARK.

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
PACKAGE				CABINET			
	141 6 1419 50401	Individual Carton	1		141 2 1749 03200	Speaker Foot	4
	141 6 1449 68300	Styrofoam Case, Up	1		141 2 2149 15000	Battery Ribbon	1
	141 6 1449 68400	Styrofoam Case, Under	1		141 2 2519 31700	Hinge	4
	141 6 2519 12590	Poly Cover	2		141 2 2529 02700	Speaker Lock Pin	2
	141 6 2519 12690	Poly Cover	1		141 2 2529 02800	Speaker Box Hanger	2
	141 6 4559 03200	Serial No. Sheet	2		141 2 2719 13800	Handle Holder	2
ACCESSORIES					141 2 2899 20700	Adhesive Sheet	2
	4 2369 70216	Power Cord Plug	1		141 2 3169 15700	Chassis Bracket	1
	4 2419 71254	Cassette	1		141 2 3229 31700	Speaker Pad	4
	 4 2439 70310	Power Cord	1		141 2 3229 33500	Shield Plate	1
	141 2 3529 10600	Cassette Stopper	1		141 2 3519 50400	Speaker Hanger	2
	141 6 2519 11022	Poly Cover	1		141 2 3679 28400	Power Jack Bracket	1
	141 6 4519 19400	Warranty Card	1		141 2 3679 28900	Headphone Bracket	1
	141 6 4729 07400	Caution Label	1		141 2 3729 02800	Speaker Reinforce	2
	141 6 4729 07700	Caution Label	1		141 2 3779 17400	P.C.B. Bracket, Right	1
	141 6 4729 34800	Instruction Sheet	1		141 2 3779 17500	P.C.B. Bracket, Left	1
	141 6 4729 34900	Caution Charge Label	1		141 2 3829 04300	Battery Terminal	2
	142 6 4119 15700	Instruction Book	1		141 2 3829 20000	Battery Spring	1
CABINET					141 2 3829 20900	Battery Spring	2
	4 1519 70950	Speaker	2		141 2 3849 03600	Antenna Terminal Base	1
	4 1519 70960	Speaker	2		141 2 3849 29200	Catcher Antenna	2
BM1	4 1539 70661	Microphone	1		141 2 4119 01700	Nut, Speaker Box Hook	2
BM2	4 1539 70661	Microphone	1		141 2 4219 10400	Poly Wave Screw	4
	4 2269 34331	P.C.B. Power Switch Lever	1		141 2 4219 11200	Screw	4
S29	 4 2319 73201	Power Switch	1		141 2 4219 11600	Screw	2
S30	 4 2319 74930	Slide Switch (Voltage Select)	1		141 2 4219 14000	Screw	2
S32	 4 2319 70773	Slide Switch (Local/DX)	1		141 2 4219 20800	Screw	4
	4 2359 70990	RT Pin Socket	4		141 2 4219 21200	Screw	8
	4 2369 72540	Antenna Plug	1		141 2 4219 21600	Screw	8
	4 2369 73230	Cord Plug	2		141 2 4219 22800	Screw	12
	4 2449 70310	Antenna	2		141 2 4419 13600	Cushion	4
T602	 4 2519 73361	Power Transformer	1		141 2 4419 15200	Cushion	2
	141 0 1119 71600	Cabinet Side Assy	1		141 2 4459 24400	Microphone Holder	2
	141 0 1119 71702	Cabinet Bottom Assy	1		141 2 4469 33700	Speaker Box Cushion	1
	141 0 1119 71801	Cabinet Front Assy	1		141 2 4469 33800	Speaker Box Cushion	1
	141 0 1119 71901	Cabinet Speaker Left Assy	1		141 2 4469 34000	Cabinet Side Cushion	8
	141 0 1119 72001	Cabinet Speaker Right Assy	1		141 2 4569 05100	Ring	1
	141 0 1119 72100	Cabinet Back Speaker Assy	2		141 2 4729 03001	Lug	2
	141 0 1249 17400	Cassette Lid Assy	1		141 2 4729 06600	Wire Holder	2
	141 0 1559 00100	Tweeter Grille Assy	2		141 2 5519 03300	Dial Roller A	2
	141 0 1619 28800	Switch Knob Assy	1		141 2 7319 40900	Speaker Box Button Lever	2
	141 0 1719 08800	Handle Assy	1		141 2 8459 03100	Push Speaker Bracket	2
	141 2 1119 61300	Control Chassis	1		141 2 8519 48600	Spring, Cassette Up	4
	141 2 1149 21400	Tweeter Net	2		141 2 8539 37600	Spring, Light Button	2
	141 2 1339 22200	Battery Lid	1		101 3 1203 00813	Screw, Flat Hd. +M3.0x8	4
	141 2 1339 22800	Lid Cord	2		101 3 1203 01018	Screw, Flat Hd. +M3.0x10	6
	141 2 1619 69400	Light Button	2		101 3 1302 00511	Screw, Pan Hd. +M2.0x5	4
	141 2 1619 69800	Select Button	5		101 3 1302 00518	Screw, Pan Hd. +M2.0x5	2
	141 2 1619 72700	Speaker Box Knob	2		101 3 1302 60511	Screw, Pan Hd. +M2.6x5	10
	141 2 1619 78600	Select Eject Button	1		101 3 1303 00511	Screw, Pan Hd. +M3.0x5	16
	141 2 1619 78700	Select Play Button	1		101 3 1303 00818	Screw, Pan Hd. +M3.0x8	2
	141 2 1629 04400	Edit Button	1		101 3 1303 01018	Screw, Pan Hd. +M3.0x10	2
	141 2 1629 04500	Switch Lever Knob	8		101 3 1703 01018	Screw, Bind Hd. +M3.0x10	1
	141 2 1719 22700	Speaker Box Pipe Arm	2		103 3 1203 01018	Screw, Flat Hd. Tapping-2 +M3.0x10	9
	141 2 1619 22800	Speaker Box Arm, Right	2		103 3 1302 60511	Screw, Pan Hd. Tapping-2 +M2.6x5	2
	141 2 1719 23100	Speaker Box Arm, Left	2		103 3 1303 00611	Screw, Pan Hd. Tapping-2 +M3.0x6	18
	141 2 1749 02900	Foot	4		103 3 1303 00811	Screw, Pan Hd. Tapping-2 +M3.0x8	4
					103 3 1303 01211	Screw, Pan Hd. Tapping-2 +M3.0x12	3
					103 3 1303 01611	Screw, Pan Hd. Tapping-2 +M3.0x16	2

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
CABINET				POWER AMPLIFIER P.C.B. ASSY			
	103 3 1703 01013	Screw, Bind Hd. Tapping-2 +M3.0x10	4	C494	CM1 5 4500 K00SV	Mylar 0.15 μ F 50V \pm 10%	1
	103 3 1703 01218	Screw, Bind Hd. Tapping-2 +M3.0x12	3	C495	CD1 0 8160 0000V	Electrolytic 1000 μ F 16V	1
	106 3 1103 00111	Nut-1 M3.0	2	C496	CC2 2 3500 ZG00C	Ceramic 0.022 μ F 50V \pm 80, -20%	1
	106 3 1108 00311	Nut-1 M8.0	2	C497	CD4 7 8250 0000V	Electrolytic 4700 μ F 25V	1
	106 3 1203 00211	Nut-2 M3.0	8	C498	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1
	110 3 1308 00011	Finished Washer M8.0	2	C499	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1
	143 3 1302 60511	Screw, Pan Hd. Tapping-B +M2.6x5	1	C502	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1
	143 3 1302 60611	Screw, Pan Hd. Tapping-B +M2.6x6	6	C503	CM1 5 4500 K00SV	Mylar 0.15 μ F 50V \pm 10%	1
	143 3 1302 60811	Screw, Pan Hd. Tapping-B +M2.6x8	4	C504	CD1 0 8160 0000V	Electrolytic 1000 μ F 16V	1
	143 3 1903 00611	Screw, Brazier Hd. Tapping-B +M3.0x6	8	C545	CD4 7 6100 0000V	Electrolytic 47 μ F 10V	1
	143 3 1903 00811	Screw, Brazier Hd. Tapping-B +M3.0x8	8	C636	CD1 0 8160 0000V	Electrolytic 1000 μ F 16V	1
	143 3 1903 01011	Screw, Brazier Hd. Tapping-B +M3.0x10	8	C639	CD4 7 6100 0000V	Electrolytic 47 μ F 16V	1
	143 3 1903 01018	Screw, Brazier Hd. Tapping-2 +M3.0x10	9	C640	CD2 2 6160 0000V	Electrolytic 22 μ F 16V	1
	143 3 1903 01218	Screw, Brazier Hd. Tapping-B +M3.0x12	15	C647	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
	CB4 7 5250 0000V	Non-polar 4.7 μ F 25V (for Speaker)	2	C648	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1
R86	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W \pm 5%	1	C671	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
R98	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1	C672	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
	141 2 1639 35300	Knob	1	C673	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
	141 2 1639 35500	Tuning Knob	1	D203	202 5 2810 44210	Diode, DS442	1
	141 2 1639 35600	Knob	2	D209	202 5 2470 13540	Diode, DS135	1
	141 2 1639 35700	Volume Knob	1	D403	202 5 2810 44210	Diode, DS442	1
	141 2 1639 39400	Band Select Knob	2	D409	202 5 2470 13540	Diode, DS135	1
	141 2 1649 13400	Slide EQ Knob	5	D614	202 5 3210 13020	Diode, GZA13U	1
	4 2319 74690	Slide Lever (S2)	1	D632	202 5 3210 11020	Diode, GZA11U	1
	4 2319 74700	Slide Lever (S3)	1	IC203	206 5 1114 12522	IC, LA4125T	1
	141 2 4629 00705	Flexible Wire	2	IC403	206 5 1114 12522	IC, LA4125T	1
	141 2 1619 69600	ASF Knob	7	Q218	203 5 7200 60850	Transistor, 2SA608	1
	141 2 3229 31301	Shield Leaf	1	Q219	203 5 7200 60860	Transistor, 2SA608	1
	141 2 3229 31500	Shield Plate	1	Q220	203 5 5100 53650	Transistor, 2SC536	1
	141 2 3689 07000	LED Meter Cover	1	Q229	203 5 5100 53660	Transistor, 2SC536	1
	141 2 4469 14900	Battery Lid Cushion	1	Q418	203 5 7200 60850	Transistor, 2SA608	1
	141 2 4469 36900	Cushion	1	Q419	203 5 7200 60860	Transistor, 2SA608	1
	141 2 4539 16600	Washer	2	Q420	203 5 5100 53650	Transistor, 2SC536	1
	141 2 4539 05300	Band Wire	4	Q429	203 5 5100 53660	Transistor, 2SC536	1
	141 2 8519 99900	Spring, Record Lever	1	Q613	203 5 7330 61260	Transistor, 2SD612	1
	103 3 1303 01018	Screw, Pan Hd. Tapping-2 +M3.0x10	5	Q614	203 5 7330 61260	Transistor, 2SD612	1
				Q621	203 5 7330 61260	Transistor, 2SD612	1
POWER AMPLIFIER P.C.B. ASSY				R294	RD1 5 1251 JM000	Carbon 150 ohm 1/4W \pm 5%	1
	4 1329 76170	Power Amplifier P.C.B. Assy	1	R295	RD8 2 0251 JM000	Carbon 82 ohm 1/4W \pm 5%	1
	4 2369 70740	RT Pin	4	R296	RD4 7 2251 JM000	Carbon 4.7k ohm 1/4W \pm 5%	1
CN52	4 2369 71881	Connector 8P	1	R297	RD8 2 2251 JM000	Carbon 8.2k ohm 1/4W \pm 5%	1
CN56	4 2369 71851	Connector 4P	1	R298	RH2 2 1102 KZ000	Metal 220 ohm 1W \pm 10%	1
CN58	4 2369 71871	Connector 7P	1	R299	RD8 2 2251 JM000	Carbon 8.2k ohm 1/4W \pm 5%	1
	141 2 3689 07900	Radiator, Power IC	2	R303	RD8 2 0251 JM000	Carbon 82 ohm 1/4W \pm 5%	1
	141 2 3689 08000	Radiator, IC	1	R309	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W \pm 5%	1
	141 2 4539 25100	Washer	4	R363	RD1 8 3251 JM000	Carbon 18k ohm 1/4W \pm 5%	1
C289	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	R368	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W \pm 5%	1
C290	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	R494	RD1 5 1251 JM000	Carbon 150 ohm 1/4W \pm 5%	1
C291	CD1 0 7100 0000V	Electrolytic 100 μ F 10V	1	R495	RD8 2 0251 JM000	Carbon 82 ohm 1/4W \pm 5%	1
C293	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1	R496	RD4 7 2251 JM000	Carbon 4.7k ohm 1/4W \pm 5%	1
C294	CM1 5 4500 K00SV	Mylar 0.15 μ F 50V \pm 10%	1	R497	RD8 2 2251 JM000	Carbon 8.2k ohm 1/4W \pm 5%	1
C295	CD1 0 8160 0000V	Electrolytic 1000 μ F 16V	1	R498	RH2 2 1102 KZ000	Metal 220 ohm 1W \pm 10%	1
C296	CC2 2 3500 ZG00C	Ceramic 0.022 μ F 50V \pm 80, -20%	1	R499	RD8 2 2251 JM000	Carbon 8.2k ohm 1/4W \pm 5%	1
C297	CD4 7 8250 0000V	Electrolytic 4700 μ F 25V	1	R503	RD8 2 0251 JM000	Carbon 82 ohm 1/4W \pm 5%	1
C298	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1	R509	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W \pm 5%	1
C299	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1	R563	RD1 8 3251 JM000	Carbon 18k ohm 1/4W \pm 5%	1
C302	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1	R568	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W \pm 5%	1
C303	CM1 5 4500 K00SV	Mylar 0.15 μ F 50V \pm 10%	1	R624	RD3 3 A251 JM000	Carbon 3.3 ohm 1/4W \pm 5%	1
C304	CD1 0 8160 0000V	Electrolytic 1000 μ F 16V	1	R625	RD8 2 1251 JM000	Carbon 820 ohm 1/4W \pm 5%	1
C345	CD4 7 6100 0000V	Electrolytic 47 μ F 10V	1	R628	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W \pm 5%	1
C489	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	R629	RD5 6 1251 JM000	Carbon 560 ohm 1/4W \pm 5%	1
C490	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	R630	RD3 3 A251 JM000	Carbon 3.3 ohm 1/4W \pm 5%	1
C491	CD1 0 7100 0000V	Electrolytic 100 μ F 10V	1	R647	RD5 6 1251 JM000	Carbon 560 ohm 1/4W \pm 5%	1
C493	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1	R648	RD3 3 A251 JM000	Carbon 3.3 ohm 1/4W \pm 5%	1
				EXT. SPEAKER JACK P.C.B. ASSY (Left)			
				J9	4 1329 76310	Ext. Speaker Jack P.C.B. Assy (Left)	1
					4 2269 34260	Speaker P.C.B.	1
					4 2359 71390	Jack 1P (Ext. Speaker)	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
LAMP SWITCH P.C.B. ASSY			
S27	4 1329 76320	Lamp Switch P.C.B. Assy	1
	4 2269 34270	Lamp Switch P.C.B.	1
	4 2319 70510	Micro Switch (Dial Light)	1
EXT. SPEAKER JACK P.C.B. ASSY (Right)			
J10	4 1329 76330	Ext. Speaker Jack P.C.B. Assy (Right)	1
	4 2269 34261	Speaker Right P.C.B.	1
	4 2359 71390	Jack 1P (Ext. Speaker)	1
POWER SUPPLY P.C.B. ASSY			
F1	4 1919 71341	Power Supply P.C.B. Assy	1
J8	4 2349 70400	Fuse (4A)	1
	4 2359 70910	Fuse Holder	2
	4 2359 73682	Power Jack	1
C650	4 2369 70740	RT Pin	2
	141 2 4359 21300	Socket Cover	1
C651	CD4 7 8250 0000V	Electrolytic 4700 μ F 25V	1
C652	CC2 2 3500 ZG00C	Ceramic 0.022 μ F 50V +80, -20%	1
C653	CC2 2 3500 ZG00C	Ceramic 0.022 μ F 50V +80, -20%	1
C654	CC2 2 3500 ZG00C	Ceramic 0.022 μ F 50V +80, -20%	1
D633	202 5 2350 15010	Diode, DS150	1
D634	202 5 2350 15010	Diode, DS150	1
D635	202 5 2350 15010	Diode, DS150	1
D636	202 5 2350 15010	Diode, DS150	1
D677	202 5 2350 15010	Diode, DS150	1
R730	RH1 0 A102 KH000	Metal 1 ohm 1W \pm 10%	1
STEREO INDICATOR P.C.B. ASSY			
D6	4 1259 71472	Stereo Indicator P.C.B. Assy	1
	4 2359 70990	RT Pin Socket	2
	4 2029 71160	LED, SLP-151B (FM Stereo)	1
	4 2269 34230	LED P.C.B.	1
MUTE SWITCH P.C.B. ASSY			
C93	4 1259 71473	Mute Switch P.C.B. Assy	1
	4 2359 70990	RT Pin Socket	2
	4 2269 34231	Switch P.C.B.	1
	4 2319 73410	Push Switch (FM Mute)	1
RADIO TUNER P.C.B. ASSY			
CN24	4 1259 71510	Radio Tuner P.C.B. Assy	1
	4 2369 70740	RT Pin	12
	4 2369 71881	Connector 8P	1
	4 2369 71851	Connector 4P	1
CN25	141 2 4729 04700	Staple 10	54
	141 2 3229 31100	Shield Case	1
	141 2 3229 31200	Shield Plate	1
	141 2 3229 23800	Shield Plate	1
BF1	4 2539 70210	Bead Ferrite	1
C1	CC2 2 0500 JD00R	Ceramic 22 pF 50V \pm 5%	1
C2	CC2 4 0500 JD00R	Ceramic 24 pF 50V \pm 5%	1
C3	CC1 0 1500 KD00C	Ceramic 100 pF 50V \pm 10%	1
C4	CC1 0 2500 KE00R	Ceramic 1000 pF 50V \pm 10%	1
C5	CC2 4 0500 JD00R	Ceramic 24 pF 50V \pm 5%	1
C6	CC4 7 A500 KD00R	Ceramic 4.7 pF 50V \pm 10%	1
C7	CC3 3 1500 KE00R	Ceramic 330 pF 50V \pm 10%	1
C8	CI4 7 2500 KE00R	Boundary 0.0047 μ F 50V \pm 10%	1
C9	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C10	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C11	CD2 2 5100 0001V	Electrolytic 2.2 μ F 10V	1
C12	CC3 0 A500 CCH0C	Ceramic 3 pF 50V \pm 0.2PF	1
C13	CC2 2 0500 JCH0C	Ceramic 22 pF 50V \pm 5%	1
C14	CC1 2 0500 JCH0C	Ceramic 12 pF 50V \pm 5%	1
C15	CC1 0 0500 JCH0R	Ceramic 10 pF 50V \pm 5%	1
C16	CC1 5 0500 JCH0R	Ceramic 15 pF 50V \pm 5%	1
C17	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C18	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C19	CC1 0 A500 MD00R	Ceramic 1 pF 50V \pm 20%	1

Ref. No.	Part No.	Description	Q'ty
RADIO TUNER P.C.B. ASSY			
C20	CI2 2 2500 KE00R	Boundary 0.0022 μ F 50V \pm 10%	1
C21	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C22	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C23	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C24	CD1 0 5100 0001V	Electrolytic 1.0 μ F 10V	1
C25	CC3 3 1500 KE00R	Ceramic 330 pF 50V \pm 10%	1
C26	CD2 2 5100 0001V	Electrolytic 2.2 μ F 10V	1
C27	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C28	CD1 0 5100 0001V	Electrolytic 1.0 μ F 10V	1
C29	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C30	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C31	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C32	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C33	CD3 3 6250 0001V	Electrolytic 33 μ F 25V	1
C34	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C35	CD2 2 7160 0001V	Electrolytic 220 μ F 16V	1
C36	CB2 2 5100 0000V	Non-polar 2.2 μ F 10V	1
C37	CD4 7 5160 0001V	Electrolytic 4.7 μ F 16V	1
C38	CS1 0 2500 J000V	Polystyrol 1000 pF 50V \pm 5%	1
C39	CI1 0 3250 MF00R	Boundary 0.01 μ F 50V \pm 20%	1
C40	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C41	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C42	CD4 7 5160 0001V	Electrolytic 4.7 μ F 16V	1
C43	CA1 0 5100 X000V	Aluminum 1.0 μ F 10V +40, -20%	1
C44	CD3 3 5100 0001V	Electrolytic 3.3 μ F 10V	1
C45	CD1 0 6100 0001V	Electrolytic 10 μ F 10V	1
C46	CD4 7 5160 0001V	Electrolytic 4.7 μ F 16V	1
C47	CD4 7 5160 0001V	Electrolytic 4.7 μ F 16V	1
C50	CD1 0 5100 0001V	Electrolytic 1.0 μ F 10V	1
C51	CD1 0 5100 0001V	Electrolytic 1.0 μ F 10V	1
C52	CD4 7 6160 0001V	Electrolytic 47 μ F 16V	1
C53	CA1 0 4100 X000V	Aluminum 0.1 μ F 10V +40, -20%	1
C54	CA1 0 4100 X000V	Aluminum 0.1 μ F 10V +40, -20%	1
C55	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C56	CC6 8 A500 KD00R	Ceramic 6.8 pF 50V \pm 10%	1
C57	CC2 2 0500 JD00R	Ceramic 22 pF 50V \pm 5%	1
C58	CC1 0 0500 JCH0R	Ceramic 10 pF 50V \pm 5%	1
C59	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C60	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C61	CS3 1 2500 J000V	Polystyrol 0.0031 μ F 50V \pm 5%	1
C62	CS3 5 1500 J000V	Polystyrol 350 pF 50V \pm 5%	1
C63	CS2 0 1500 J000V	Polystyrol 200 pF 50V \pm 5%	1
C64	CC1 0 0500 JCH0R	Ceramic 10 pF 50V \pm 5%	1
C65	CC1 5 0500 JCH0R	Ceramic 15 pF 50V \pm 5%	1
C66	CC1 0 1500 JD00R	Ceramic 100 pF 50V \pm 5%	1
C67	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C68	CC1 5 0500 JCH0R	Ceramic 15 pF 50V \pm 5%	1
C69	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C70	CI2 2 2500 KE00R	Boundary 0.0022 μ F 50V \pm 10%	1
C71	CI1 0 3250 MF00R	Boundary 0.01 μ F 50V \pm 20%	1
C72	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C73	CD1 0 6100 0001V	Electrolytic 10 μ F 10V	1
C74	CI1 0 3250 KE00C	Boundary 0.01 μ F 25V \pm 10%	1
C75	CI1 0 3250 KE00C	Boundary 0.01 μ F 25V \pm 10%	1
C76	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C77	CD4 7 6100 0001V	Electrolytic 47 μ F 10V	1
C78	CD4 7 4100 0000V	Electrolytic 0.47 μ F 10V	1
C79	CA2 2 4100 X000V	Aluminum 0.22 μ F 10V +40, -20%	1
C80	CD3 3 6250 0001V	Electrolytic 33 μ F 25V	1
C81	CD3 3 6250 0001V	Electrolytic 33 μ F 25V	1
C82	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
C83	CI1 0 3250 KE00C	Boundary 0.01 μ F 25V \pm 10%	1
C84	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C85	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C86	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C87	CD1 0 7160 0001V	Electrolytic 100 μ F 16V	1
C88	CD2 2 5100 0001V	Electrolytic 2.2 μ F 10V	1
C89	CD3 3 6100 0001V	Electrolytic 33 μ F 10V	1
C90	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1
C91	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
RADIO TUNER P.C.B. ASSY				RADIO TUNER P.C.B. ASSY			
C92	CD2 2 7250 0001V	Electrolytic 220 μ F 25V	1	R5	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W \pm 5%	1
C94	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1	R6	RD6 8 4251 JM000	Carbon 680k ohm 1/4W \pm 5%	1
C95	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1	R7	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W \pm 5%	1
C96	CI2 2 3160 XG00R	Boundary 0.022 μ F 16V +40, -20%	1	R8	RD1 2 4251 JM000	Carbon 120k ohm 1/4W \pm 5%	1
C97	CC6 8 A500 KD00R	Ceramic 6.8 pF 50V \pm 10%	1	R9	RD1 2 4251 JM000	Carbon 120k ohm 1/4W \pm 5%	1
C98	CD4 7 5160 0001V	Electrolytic 4.7 μ F 16V	1	R10	RD3 3 1251 JM000	Carbon 330 ohm 1/4W \pm 5%	1
C99	CD3 3 6100 0001V	Electrolytic 33 μ F 10V	1	R11	RD3 3 1251 JM000	Carbon 330 ohm 1/4W \pm 5%	1
C800	CD3 3 6100 0001V	Electrolytic 33 μ F 10V	1	R12	RD6 8 4251 JM000	Carbon 680k ohm 1/4W \pm 5%	1
C801	CD3 3 6100 0001V	Electrolytic 33 μ F 10V	1	R13	RD8 2 0251 JM000	Carbon 82 ohm 1/4W \pm 5%	1
C802	CD3 3 6100 0001V	Electrolytic 33 μ F 10V	1	R14	RD3 3 1251 JM000	Carbon 330 ohm 1/4W \pm 5%	1
C803	CD2 2 5100 0001V	Electrolytic 2.2 μ F 10V	1	R15	RD5 6 1251 JM000	Carbon 560 ohm 1/4W \pm 5%	1
CF1	4 2539 70232	SFE 10.7 MA53 (Red)	1	R16	RD3 3 1251 JM000	Carbon 330 ohm 1/4W \pm 5%	1
CF2	4 2539 70232	SFE 10.7 MA53 (Red)	1	R17	RD3 3 1251 JM000	Carbon 330 ohm 1/4W \pm 5%	1
D1	4 2029 70791	Diode, ITT410	1	R18	RD1 2 3251 JM000	Carbon 12k ohm 1/4W \pm 5%	1
D2	202 5 9040 44210	Diode, DS442	1	R19	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W \pm 5%	1
D3	202 5 9110 18820	Diode, 1S188	1	R20	RD6 8 3251 JM000	Carbon 68k ohm 1/4W \pm 5%	1
D4	202 5 9110 18820	Diode, 1S188	1	R21	RD6 8 3251 JM000	Carbon 68k ohm 1/4W \pm 5%	1
D5	4 2029 71530	Diode, RD9.1	1	R22	RD3 3 3251 JM000	Carbon 33k ohm 1/4W \pm 5%	1
D7	202 5 9040 44210	Diode, DS442	1	R23	RD4 7 3251 JM000	Carbon 47k ohm 1/4W \pm 5%	1
D8	202 5 9040 44210	Diode, DS442	1	R24	RD3 9 2251 JM000	Carbon 3.9k ohm 1/4W \pm 5%	1
D9	202 5 9040 44210	Diode, DS442	1	R25	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W \pm 5%	1
D10	202 5 9040 44210	Diode, DS442	1	R26	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W \pm 5%	1
D11	202 5 9040 44210	Diode, DS442	1	R27	RD3 3 0251 JM000	Carbon 33 ohm 1/4W \pm 5%	1
D12	202 5 9040 44210	Diode, DS442	1	R29	RD2 2 1251 JM000	Carbon 220 ohm 1/4W \pm 5%	1
D13	202 5 9040 44210	Diode, DS442	1	R29	RD1 2 3251 JM000	Carbon 12k ohm 1/4W \pm 5%	1
D14	202 5 9040 44210	Diode, DS442	1	R30	RD3 9 2251 JM000	Carbon 3.9k ohm 1/4W \pm 5%	1
D15	202 5 9040 44210	Diode, DS442	1	R31	RD3 9 2251 JM000	Carbon 3.9k ohm 1/4W \pm 5%	1
D16	202 5 9040 44210	Diode, DS442	1	R32	RD1 2 3251 JM000	Carbon 12k ohm 1/4W \pm 5%	1
IC1	4 2069 71030	IC, μ PC1167C	1	R33	RD2 2 3251 JM000	Carbon 22k ohm 1/4W \pm 5%	1
IC2	206 5 0603 37010	IC, LA3370	1	R34	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
IC3	4 2069 70232	IC, μ PC1018	1	R35	RD1 2 4251 JM000	Carbon 120k ohm 1/4W \pm 5%	1
L1	4 2579 70960	Antenna Coil	1	R36	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
L2	4 2579 70950	RF Coil	1	R37	RD3 9 2251 JM000	Carbon 3.9k ohm 1/4W \pm 5%	1
L3	4 2659 70310	Loading Coil	1	R38	RD3 9 2251 JM000	Carbon 3.9k ohm 1/4W \pm 5%	1
L4	4 2599 70650	Trap Coil	1	R39	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W \pm 5%	1
L5	4 2589 71780	OSC Coil	1	R40	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W \pm 5%	1
L6	4 2729 70420	Choke Coil	1	R41	RD3 3 4251 JM000	Carbon 330k ohm 1/4W \pm 5%	1
L7	4 2729 70420	Choke Coil	1	R42	RD3 3 4251 JM000	Carbon 330k ohm 1/4W \pm 5%	1
L8	4 2729 70420	Choke Coil	1	R43	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1
L9	4 2659 70250	Loading Coil	1	R44	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1
L10	4 2579 70721	Antenna Coil	1	R45	RD5 6 1251 JM000	Carbon 560 ohm 1/4W \pm 5%	1
L11	4 2589 71420	OSC Transformer	1	R46	RD5 6 1251 JM000	Carbon 560 ohm 1/4W \pm 5%	1
L12	4 2729 70420	Choke Coil	1	R47	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W \pm 5%	1
L13	4 2729 70420	Choke Coil	1	R48	RD5 6 0251 JM000	Carbon 56 ohm 1/4W \pm 5%	1
L14	4 2579 71000	Bar Antenna	1	R49	RD5 6 A251 JM000	Carbon 5.6 ohm 1/4W \pm 5%	1
L15	4 2659 70320	Balun Coil	1	R50	RD3 3 0251 JM000	Carbon 33 ohm 1/4W \pm 5%	1
P1	4 2229 72968	Potentiometer (B-20k)	1	R51	RD1 2 3251 JM000	Carbon 12k ohm 1/4W \pm 5%	1
P2	4 2229 72967	Potentiometer (B-10k)	1	R52	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1
PVC1	4 2249 70630	Variable Condenser	1	R53	RD4 7 3251 JM000	Carbon 47k ohm 1/4W \pm 5%	1
Q1	4 2039 70890	Transistor, 2SK195	1	R54	RD1 2 3251 JM000	Carbon 12k ohm 1/4W \pm 5%	1
Q2	4 2039 70381	Transistor, 2SC1674	1	R55	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W \pm 5%	1
Q3	4 2039 70460	Transistor, 2SC1675	1	R56	RD6 8 4251 JM000	Carbon 680k ohm 1/4W \pm 5%	1
Q4	4 2039 70461	Transistor, 2SC1675	1	R57	RD3 3 1251 JM000	Carbon 330 ohm 1/4W \pm 5%	1
Q5	203 5 5100 69362	Transistor, 2SC693	1	R58	RP6 8 1121 JH000	Pretty 680 ohm 1/8W \pm 5%	1
Q6	203 5 5100 69362	Transistor, 2SC693	1	R59	RD3 9 1251 JM000	Carbon 390 ohm 1/4W \pm 5%	1
Q7	203 5 6900 40050	Transistor, 2SD400	1	R60	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
Q8	4 2039 70460	Transistor, 2SC1675	1	R61	RD3 3 1251 JM000	Carbon 330 ohm 1/4W \pm 5%	1
Q9	203 5 5100 69362	Transistor, 2SC693	1	R62	RD6 8 4251 JM000	Carbon 680k ohm 1/4W \pm 5%	1
Q10	203 5 5100 53660	Transistor, 2SC536	1	R63	RD1 2 2251 JM000	Carbon 12k ohm 1/4W \pm 5%	1
Q11	203 5 5100 53670	Transistor, 2SC536	1	R64	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W \pm 5%	1
Q12	203 5 5100 53660	Transistor, 2SC536	1	R65	RD6 8 3251 JM000	Carbon 68k ohm 1/4W \pm 5%	1
Q13	203 5 5100 53670	Transistor, 2SC536	1	R66	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
Q14	203 5 5100 53670	Transistor, 2SC536	1	R67	RD5 6 A251 JM000	Carbon 5.6 ohm 1/4W \pm 5%	1
Q15	203 5 5100 53660	Transistor, 2SC536	1	R68	RD6 8 3251 JM000	Carbon 68k ohm 1/4W \pm 5%	1
Q16	203 5 5100 69362	Transistor, 2SC693	1	R69	RD6 8 4251 JM000	Carbon 680k ohm 1/4W \pm 5%	1
Q17	203 5 5100 69362	Transistor, 2SC693	1	R70	RD6 8 3251 JM000	Carbon 68k ohm 1/4W \pm 5%	1
R1	RD1 8 4251 JM000	Carbon 180k ohm 1/4W \pm 5%	1	R71	RD2 2 3251 JM000	Carbon 22k ohm 1/4W \pm 5%	1
R2	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1	R72	RD1 8 4251 JM000	Carbon 180k ohm 1/4W \pm 5%	1
R3	RD1 0 5251 JM000	Carbon 1M ohm 1/4W \pm 5%	1	R73	RD1 2 4251 JM000	Carbon 120k ohm 1/4W \pm 5%	1
R4	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W \pm 5%	1	R74	RD3 3 1251 JM000	Carbon 330 ohm 1/4W \pm 5%	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
RADIO TUNER P.C.B. ASSY			
R75	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R76	RD1 2 4251 JM000	Carbon 120k ohm 1/4W ±5%	1
R77	RD1 2 3251 JM000	Carbon 12k ohm 1/4W ±5%	1
R78	RD1 2 3251 JM000	Carbon 12k ohm 1/4W ±5%	1
R79	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1
R80	RD1 2 3251 JM000	Carbon 12k ohm 1/4W ±5%	1
R81	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R82	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R83	RD6 8 3251 JM000	Carbon 68k ohm 1/4W ±5%	1
R84	RD3 3 0251 JM000	Carbon 33 ohm 1/4W ±5%	1
R85	RD6 8 1251 JM000	Carbon 680 ohm 1/4W ±5%	1
R87	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W ±5%	1
R88	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R89	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R90	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R91	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R92	RD1 2 3251 JM000	Carbon 12k ohm 1/4W ±5%	1
R93	RD4 7 4251 JM000	Carbon 470k ohm 1/4W ±5%	1
R94	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1
R95	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1
R96	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1
R97	RD1 0 1251 JM000	Carbon 100 ohm 1/4W ±5%	1
S9	4 2319 74680	Rotary Switch (Band Select)	1
T1	4 2569 70852	IFT FM	1
T2	4 2569 71270	IFT FM	1
T3	4 2729 70430	Transformer	1
T4	4 2729 70430	Transformer	1
T5	4 2589 71362	OSC Transformer	1
T6	4 2589 70703	OSC Transformer	1
T7	4 2569 70912	IFT AM	1
T8	4 2569 70923	IFT AM	1
T9	4 2569 70722	IFT AM	1
TC1	4 2249 70290	Trimmer Condenser	1
TC2	4 2249 70290	Trimmer Condenser	1
TC3	4 2249 70350	Trimmer	1
TC4	4 2249 70290	Trimmer Condenser	1
TC5	4 2249 70290	Trimmer Condenser	1
TC6	4 2249 70350	Trimmer	1
TUNING INDICATOR P.C.B. ASSY			
4 1259 71511	Tuning Indicator P.C.B. Assy		1
141 2 4729 04700	Staple 10		3
141 2 3229 23000	Shield Plate		1
4 2359 75190	Connector 8P Assy		1
CN24	CD2 2 5100 0001V	Electrolytic 2.2 μF 10V	1
C901	CI2 2 3160 XG00R	Boundary 0.022 μF 16V +40, -20%	1
C902	CI2 2 3160 XG00R	Boundary 0.022 μF 16V +40, -20%	1
C903	CD3 3 6100 0001V	Electrolytic 33 μF 10V	1
C904	CI2 2 3160 XG00R	Boundary 0.022 μF 16V +40, -20%	1
C905	CD3 3 6100 0001V	Electrolytic 33 μF 10V	1
C906	CI2 2 3160 XG00R	Boundary 0.022 μF 16V +40, -20%	1
C907	CI2 2 3160 XG00R	Boundary 0.022 μF 16V +40, -20%	1
C908	CD1 0 7160 0001V	Electrolytic 100 μF 16V	1
C909	CD2 2 5100 0001V	Electrolytic 2.2 μF 10V	1
D901	4 2029 70970	Diode, RD10	1
D902	4 2029 71540	Diode, SLP-252BG (Tuning Indicator)	1
IC4	4 2069 71220	IC, BA685	1
L901	4 2659 70241	Loading Coil (1 mH)	1
Q901	203 5 6900 40050	Transistor, 2SD400	1
Q902	203 5 7200 60850	Transistor, 2SA608	1
Q903	203 5 5100 53660	Transistor, 2SC536	1
R901	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R902	RD6 8 3251 JM000	Carbon 68k ohm 1/4W ±5%	1
R903	RD2 2 1251 JM000	Carbon 220 ohm 1/4W ±5%	1
R904	RD5 6 1251 JM000	Carbon 560 ohm 1/4W ±5%	1
R905	RD3 9 1251 JM000	Carbon 390 ohm 1/4W ±5%	1
R906	RD1 0 1251 JM000	Carbon 100 ohm 1/4W ±5%	1
R907	RD5 6 1251 JM000	Carbon 560 ohm 1/4W ±5%	1
R908	RD3 3 0251 JM000	Carbon 33 ohm 1/4W ±5%	1
R909	RD5 6 1251 JM000	Carbon 560 ohm 1/4W ±5%	1

Ref. No.	Part No.	Description	Q'ty
TUNING INDICATOR P.C.B. ASSY			
R910	RD5 6 A251 JM000	Carbon 5.6 ohm 1/4W ±5%	1
R911	RD1 2 4251 JM000	Carbon 120k ohm 1/4W ±5%	1
R912	RD1 2 4251 JM000	Carbon 120k ohm 1/4W ±5%	1
R913	RD1 8 4251 JM000	Carbon 180k ohm 1/4W ±5%	1
R914	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R915	RD1 2 3251 JM000	Carbon 12k ohm 1/4W ±5%	1
R916	RD1 2 3251 JM000	Carbon 12k ohm 1/4W ±5%	1
R917	RP3 9 1121 JH000	Pretty 390 ohm 1/8W ±5%	1
R918	RP2 2 1121 JH000	Pretty 220 ohm 1/8W ±5%	1
R919	RP4 7 1121 JH000	Pretty 470 ohm 1/8W ±5%	1
R920	RD1 8 3251 JM000	Carbon 18k ohm 1/4W ±5%	1
R921	RD5 6 1251 JM000	Carbon 560 ohm 1/4W ±5%	1
FREQUENCY EQ CONTROL P.C.B. ASSY			
4 1329 76190	Frequency EQ Control P.C.B. Assy		1
4 2369 73035	Connector 5P		1
4 2369 73034	Connector 4P		1
4 2359 75170	Connector 5P Assy		1
4 2359 75170	Connector 5P Assy		1
4 2359 75191	Connector 8P Assy		1
4 2439 71420	Flat Wire 4		1
4 2439 71440	Flat Wire 5		1
C287	CC2 7 2500 KE00C	Ceramic 0.0027 μF 50V ±10%	1
C288	CM1 5 4500 K00SV	Mylar 0.15 μF 50V ±10%	1
C487	CC2 7 2500 KE00C	Ceramic 0.0027 μF 50V ±10%	1
C488	CM1 5 4500 K00SV	Mylar 0.15 μF 50V ±10%	1
R293	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W ±5%	1
R493	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W ±5%	1
VR1	4 2229 73410	Volume Control (Balance, A-50k)	1
VR2	4 2229 73411	Volume Control (Volume, M-20k)	1
VR3	4 2229 73420	Volume Control (10 kHz, W-100k)	1
VR4	4 2229 73420	Volume Control (3.3 kHz, W-100k)	1
VR5	4 2229 73420	Volume Control (1 kHz, W-100k)	1
VR6	4 2229 73420	Volume Control (330 Hz, W-100k)	1
VR7	4 2229 73420	Volume Control (100 Hz, W-100k)	1
RECORD VOLUME P.C.B. ASSY			
4 1329 76200	Record Volume P.C.B. Assy		1
4 2319 73411	Push Switch (Record Mute)		1
4 2359 75118	Connector 3P Assy		1
4 2359 75132	Connector 6P Assy		1
4 2369 71482	Connector 3P		1
202 5 2810 44210	Diode, DS442		1
4 2039 70760	IC, 2SC1583		1
203 5 5100 53660	Transistor, 2SC536		1
203 5 5100 53660	Transistor, 2SC536		1
RD4 7 2251 JM000	Carbon 4.7k ohm 1/4W ±5%		1
RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%		1
4 2229 73430	Volume Control (Record Level, A-50k)		1
4 2229 73430	Volume Control (Record Level, A-50k)		1
MICROPHONE AMPLIFIER P.C.B. ASSY			
4 1329 76210	Microphone Amplifier P.C.B. Assy		1
4 2359 75180	Connector 7P Assy		1
4 2369 71851	Connector 4P		1
CD1 0 6160 0000V	Electrolytic 10 μF 16V		1
CM2 2 3500 K00SV	Mylar 0.022 μF 50V ±10%		1
CM1 8 3500 K00SV	Mylar 0.018 μF 50V ±10%		1
CC1 0 2500 KE00C	Ceramic 0.001 μF 50V ±10%		1
CD4 7 5160 0000V	Electrolytic 4.7 μF 16V		1
CC1 0 2500 KE00C	Ceramic 0.001 μF 50V ±10%		1
CD1 0 6100 0000V	Electrolytic 10 μF 10V		1
CC4 7 0500 KE00C	Ceramic 47 pF 50V ±10%		1
CC1 0 1500 KD00C	Ceramic 100 pF 50V ±10%		1
CD1 0 6160 0000V	Electrolytic 10 μF 16V		1
CD1 0 6160 0000V	Electrolytic 10 μF 16V		1
CD1 0 6160 0000V	Electrolytic 10 μF 16V		1
CM2 2 3500 K00SV	Mylar 0.022 μF 50V ±10%		1
CM1 8 3500 K00SV	Mylar 0.018 μF 50V ±10%		1
CC1 0 2500 KE00C	Ceramic 0.001 μF 50V ±10%		1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
MICROPHONE AMPLIFIER P.C.B. ASSY				PRE-AMPLIFIER P.C.B. ASSY			
C420	CD4 7 5160 0000V	Electrolytic 4.7 μ F 16V	1		4 1329 76221	Preamplifier P.C.B. Assy	1
C421	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	S1	4 2319 73902	Slide Switch (Record/Play)	1
C422	CD1 0 6100 0000V	Electrolytic 10 μ F 10V	1	S2	4 2319 74710	Slide Switch (Input Select)	1
C423	CC4 7 0500 KE00C	Ceramic 47 pF 50V \pm 10%	1	S3	4 2319 74311	Slide Switch (Function)	1
C424	CC1 0 1500 KD00C	Ceramic 100 pF 50V \pm 10%	1	S31	4 2319 71900	Slide Switch (DIN)	1
C425	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	J11	4 2359 71552	DIN Socket (Record/Play)	1
C542	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	CN1	4 2369 71482	Connector 3P	1
C604	CD2 2 7160 0001V	Electrolytic 220 μ F 16V	1	CN2	4 2369 71891	Connector 11P Top	1
C605	CD1 0 7160 0001V	Electrolytic 100 μ F 16V	1	CN3	4 2369 71871	Connector 7P	1
C620	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	CN4	4 2369 71452	Connector 6P	1
C621	CD1 0 7160 0001V	Electrolytic 100 μ F 16V	1	CN5	4 2369 72920	Connector 5P	1
C622	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	CN11	4 2369 73190	Connector 4P	1
C623	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	CN12	4 2369 73180	Connector 3P	1
C624	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	CN13	4 2369 73210	Connector 6P	1
C625	CD1 0 7160 0001V	Electrolytic 100 μ F 16V	1	CN14	4 2369 73220	Connector 7P	1
C629	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	CN25	4 2359 75164	Connectpr 4P Assy	1
C630	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	CN43	4 2359 75194	Connector 8P Assy	1
C631	CC1 0 1500 KD00C	Ceramic 100 pF 50V \pm 10%	1		4 2369 70740	RT Pin	8
C632	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C201	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1
C676	CD4 7 6100 0001V	Electrolytic 47 μ F 10V	1	C202	CD4 7 5160 0000V	Electrolytic 4.7 μ F 16V	1
D612	205 5 9040 44210	Diode, DS442	1	C203	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
D613	205 5 9040 44210	Diode, DS442	1	C204	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
D656	205 5 9040 44210	Diode, DS442	1	C205	CD1 0 6100 0000V	Electrolytic 10 μ F 10V	1
IC602	206 5 0703 15510	IC, LA3155	1	C206	CC4 7 0500 KE00C	Ceramic 47 pF 50V \pm 10%	1
J1	4 2359 73246	Jack 1P (Microphone, Left)	1	C207	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1
J2	4 2359 73246	Jack 1P (Microphone, Right)	1	C208	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
J3	4 2359 73246	Jack 1P (Microphone, Mixing)	1	C209	CM8 2 2500 K00SV	Mylar 0.0082 μ F 50V \pm 10%	1
Q603	203 5 5100 69362	Transistor, 2SC693	1	C210	CM5 6 3500 K00SV	Mylar 0.056 μ F 50V \pm 10%	1
Q604	203 5 5100 69352	Transistor, 2SC693	1	C211	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1
Q605	203 5 5100 69362	Transistor, 2SC693	1	C212	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
Q606	203 5 5100 53650	Transistor, 2SC536	1	C213	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
Q633	203 5 5100 53660	Transistor, 2SC536	1	C214	CC1 8 0500 JD00C	Ceramic 18 pF 50V \pm 5%	1
R219	RD1 0 2251 JN000	Carbon 1k ohm 1/4W \pm 5%	1	C215	CC5 6 1500 KE00C	Ceramic 560 pF 50V \pm 10%	1
R220	RD4 7 2251 JN000	Carbon 4.7k ohm 1/4W \pm 5%	1	C226	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
R221	RD3 3 3251 JN000	Carbon 33k ohm 1/4W \pm 5%	1	C227	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
R222	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1	C228	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
R223	RD1 2 4251 JN000	Carbon 120k ohm 1/4W \pm 5%	1	C229	CC6 8 1500 KE00C	Ceramic 680 pF 50V \pm 10%	1
R224	RD5 6 2251 JN000	Carbon 5.6k ohm 1/4W \pm 5%	1	C230	CM5 6 3500 K00SV	Mylar 0.056 μ F 50V \pm 10%	1
R225	RD3 3 2251 JN000	Carbon 3.3k ohm 1/4W \pm 5%	1	C231	CD3 3 6160 0000V	Electrolytic 33 μ F 16V	1
R301	RD1 2 3251 JN000	Carbon 12k ohm 1/4W \pm 5%	1	C232	CD1 0 6100 0000V	Electrolytic 10 μ F 10V	1
R365	RD1 0 4251 JN000	Carbon 100k ohm 1/4W \pm 5%	1	C233	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
R419	RD1 0 2251 JN000	Carbon 1k ohm 1/4W \pm 5%	1	C234	CC4 7 0500 KE00C	Ceramic 47 pF 50V \pm 10%	1
R420	RD4 7 2251 JN000	Carbon 4.7k ohm 1/4W \pm 5%	1	C235	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1
R421	RD3 3 3251 JN000	Carbon 33k ohm 1/4W \pm 5%	1	C236	CM1 5 3500 K00SV	Mylar 0.015 μ F 50V \pm 10%	1
R422	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1	C237	CD1 0 5100 0000V	Electrolytic 1 μ F 10V	1
R423	RD1 2 4251 JN000	Carbon 120k ohm 1/4W \pm 5%	1	C238	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1
R424	RD5 6 2251 JN000	Carbon 5.6k ohm 1/4W \pm 5%	1	C239	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1
R425	RD3 3 2251 JN000	Carbon 3.3k ohm 1/4W \pm 5%	1	C240	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
R501	RD1 2 3251 JN000	Carbon 12k ohm 1/4W \pm 5%	1	C241	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
R565	RD1 0 4251 JN000	Carbon 100k ohm 1/4W \pm 5%	1	C242	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
R605	RD2 2 1251 JN000	Carbon 220 ohm 1/4W \pm 5%	1	C246	CI1 0 4500 KF00C	Boundary 0.1 μ F 50V \pm 10%	1
R606	RD4 7 2251 JN000	Carbon 4.7k ohm 1/4W \pm 5%	1	C247	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
R626	RD1 0 1251 JN000	Carbon 100 ohm 1/4W \pm 5%	1	C248	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
R627	RD1 8 3251 JN000	Carbon 18k ohm 1/4W \pm 5%	1	C249	CD1 0 5100 0000V	Electrolytic 1 μ F 10V	1
R656	RD1 2 1251 JN000	Carbon 120 ohm 1/4W \pm 5%	1	C250	CC2 2 1500 KE00C	Ceramic 220 pF 50V \pm 10%	1
R662	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1	C253	CM4 7 2500 K00SV	Mylar 0.0047 μ F 50V \pm 10%	1
R663	RD1 0 5251 JN000	Carbon 1.0M ohm 1/4W \pm 5%	1	C254	CC1 5 2500 KE00C	Ceramic 0.0015 μ F 50V \pm 10%	1
R664	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1	C255	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
R665	RD8 2 1251 JN000	Carbon 820 ohm 1/4W \pm 5%	1	C256	CM4 7 2500 K00SV	Mylar 0.0047 μ F 50V \pm 10%	1
R667	RD6 8 0251 JN000	Carbon 68 ohm 1/4W \pm 5%	1	C258	CM3 3 3500 K00SV	Mylar 0.033 μ F 50V \pm 10%	1
R668	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1	C259	CM4 7 3500 K00SV	Mylar 0.047 μ F 50V \pm 10%	1
R669	RD3 3 2251 JN000	Carbon 3.3k ohm 1/4W \pm 5%	1	C260	RD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
R670	RD8 2 4251 JN000	Carbon 820k ohm 1/4W \pm 5%	1	C261	CD1 0 4500 0002V	Electrolytic 0.1 μ F 50V	1
R671	RD6 8 0251 JN000	Carbon 68 ohm 1/4W \pm 5%	1	C262	CD3 3 4500 0002V	Electrolytic 0.33 μ F 50V	1
R673	RD3 3 4251 JN000	Carbon 330k ohm 1/4W \pm 5%	1	C263	CB4 7 5160 0000V	Non-polar 4.7 μ F 16V	1
R674	RD1 0 2251 JN000	Carbon 1k ohm 1/4W \pm 5%	1	C264	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
R675	RD3 3 2251 JN000	Carbon 3.3k ohm 1/4W \pm 5%	1	C265	CB4 7 5160 0000V	Non-polar 4.7 μ F 16V	1
R676	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1	C266	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
R677	RD1 0 4251 JN000	Carbon 100k ohm 1/4W \pm 5%	1	C267	CB4 7 5160 0000V	Non-polar 4.7 μ F 16V	1
R679	RD1 0 4251 JN000	Carbon 100k ohm 1/4W \pm 5%	1	C268	CD4 7 5160 0000V	Electrolytic 4.7 μ F 16V	1
VR601	4 2229 73440	Volume Control (Microphone Mixing, A-20k)	1				

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
PRE-AMPLIFIER P.C.B. ASSY				PRE-AMPLIFIER P.C.B. ASSY			
C270	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	C471	CD4 7 6160 0000V	Electrolytic 47 μ F 16V	1
C271	CD4 7 6160 0000V	Electrolytic 47 μ F 16V	1	C472	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
C272	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C473	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
C273	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C474	CM1 8 3500 K00SV	Mylar 0.018 μ F 50V \pm 10%	1
C274	CM1 8 3500 K00SV	Mylar 0.018 μ F 50V \pm 10%	1	C475	CM1 8 3500 K00SV	Mylar 0.018 μ F 50V \pm 10%	1
C275	CM1 8 3500 K00SV	Mylar 0.018 μ F 50V \pm 10%	1	C476	CM3 9 3500 K00SV	Mylar 0.039 μ F 50V \pm 10%	1
C276	CM3 9 3500 K00SV	Mylar 0.039 μ F 50V \pm 10%	1	C477	CD2 2 4500 0002V	Electrolytic 0.22 μ F 50V	1
C277	CD2 2 4500 0002V	Electrolytic 0.22 μ F 50V	1	C478	CC2 2 2500 KE00C	Ceramic 0.0022 μ F 50V \pm 10%	1
C278	CC2 2 2500 KE00C	Ceramic 0.0022 μ F 50V \pm 10%	1	C479	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1
C279	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1	C481	CC2 2 1500 KE00C	Ceramic 220 pF 50V \pm 10%	1
C281	CC2 2 1500 KE00C	Ceramic 220 pF 50V \pm 10%	1	C485	CD1 0 5500 0000V	Electrolytic 1 μ F 50V	1
C285	CD1 0 5500 0000V	Electrolytic 1 μ F 50V	1	C505	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
C305	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C506	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
C306	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C541	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
C341	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C543	CM6 8 3500 K00SV	Mylar 0.068 μ F 50V \pm 10%	1
C343	CM6 8 3500 K00SV	Mylar 0.068 μ F 50V \pm 10%	1	C546	CC3 9 1500 KE00C	Ceramic 390 pF 50V \pm 10%	1
C346	CC3 9 1500 KE00C	Ceramic 390 pF 50V \pm 10%	1	C601	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
C401	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1	C602	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
C402	CD4 7 5160 0000V	Electrolytic 4.7 μ F 16V	1	C603	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
C403	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C606	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
C404	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	C607	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
C405	CD1 0 6100 0000V	Electrolytic 10 μ F 10V	1	C611	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1
C406	CC4 7 0500 KE00C	Ceramic 47 pF 50V \pm 10%	1	C612	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1
C407	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1	C613	CC5 6 1500 KE00C	Ceramic 560 pF 50V \pm 10%	1
C408	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C614	CM2 2 3500 K00SV	Mylar 0.022 μ F 50V \pm 10%	1
C409	CM8 2 2500 K00SV	Mylar 0.0082 μ F 50V \pm 10%	1	C615	CM1 5 3500 K00SV	Mylar 0.015 μ F 50V \pm 10%	1
C410	CM5 6 3500 K00SV	Mylar 0.056 μ F 50V \pm 10%	1	C616	CM6 8 2500 K00SV	Mylar 0.0068 μ F 50V \pm 10%	1
C411	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	C617	CM6 8 2500 K00SV	Mylar 0.0068 μ F 50V \pm 10%	1
C412	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	C618	CP1 2 3101 J000V	Polypropylene 0.012 μ F 100V \pm 5%	1
C413	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C619	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1
C414	CC1 8 0500 JD00C	Ceramic 18 pF 50V \pm 5%	1	C635	CD2 2 7250 0000V	Electrolytic 220 μ F 25V	1
C415	CC5 6 1500 KE00C	Ceramic 560 pF 50V \pm 10%	1	C637	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1
C426	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C670	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1
C427	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	C677	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1
C428	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	D201	202 5 2810 44210	Diode, DS442	1
C429	CC6 8 1500 KE00C	Ceramic 680 pF 50V \pm 10%	1	D401	202 5 2810 44210	Diode, DS442	1
C430	CM5 6 3500 K00SV	Mylar 0.056 μ F 50V \pm 10%	1	D601	202 5 2810 44210	Diode, DS442	1
C431	CD3 3 6160 0000V	Electrolytic 33 μ F 16V	1	D602	202 5 3210 05110	Diode, GZA5.1L	1
C432	CD1 0 6100 0000V	Electrolytic 10 μ F 10V	1	D605	202 5 2810 44210	Diode, DS442	1
C433	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	D606	202 5 2810 44210	Diode, DS442	1
C434	CC4 7 0500 KE00C	Ceramic 47 pF 50V \pm 10%	1	D608	202 5 3210 05110	Diode, GZA5.1L	1
C435	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1	D609	202 5 2810 44210	Diode, DS442	1
C436	CM1 5 3500 K00SV	Mylar 0.015 μ F 50V \pm 10%	1	D610	202 5 3210 05110	Diode, GZA5.1L	1
C437	CD1 0 5100 0000V	Electrolytic 1 μ F 10V	1	D616	202 5 3210 05110	Diode, GZA5.1L	1
C438	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1	D617	202 5 2810 44210	Diode, DS442	1
C439	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	D618	202 5 2810 44210	Diode, DS442	1
C440	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	D657	202 5 2810 44210	Diode, DS442	1
C441	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	D674	202 5 2810 44210	Diode, DS442	1
C442	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	D675	202 5 2810 44210	Diode, DS442	1
C446	CI1 0 4500 KF00C	Boundary 0.1 μ F 50V \pm 10%	1	IC201	4 2069 71230	IC, LM1111	1
C447	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1	IC202	4 2069 70031	IC, TA7066P	1
C448	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1	IC401	4 2069 71230	IC, LM1111	1
C449	CD1 0 5100 0000V	Electrolytic 1 μ F 10V	1	IC402	4 2069 70031	IC, TA7066P	1
C450	CC2 2 1500 KE00C	Ceramic 220 pF 50V \pm 10%	1	IC601	206 5 0703 15510	IC, LA3155	1
C453	CM4 7 2500 K00SV	Mylar 0.0047 μ F 50V \pm 10%	1	IC603	206 5 0703 15510	IC, LA3155	1
C454	CC1 5 2500 KE00C	Ceramic 0.0015 μ F 50V \pm 10%	1	J4	4 2359 73601	Jack 2P (Phono)	1
C455	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	J5	4 2359 73601	Jack 2P (Line In)	1
C456	CM4 7 2500 K00SV	Mylar 0.0047 μ F 50V \pm 10%	1	J6	4 2359 73601	Jack 2P (Line Out)	1
C458	CM3 3 3500 K00SV	Mylar 0.033 μ F 50V \pm 10%	1	L201	4 2729 70210	Coil (6.8 mH)	1
C459	CM4 7 3500 K00SV	Mylar 0.047 μ F 50V \pm 10%	1	L202	4 2729 70210	Coil (6.8 mH)	1
C460	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	L203	4 2599 70660	Coil	1
C461	CD1 0 4500 0002V	Electrolytic 0.1 μ F 50V \pm 10%	1	L204	4 2599 70670	DOLBY Coil	1
C462	CD3 3 4500 0002V	Electrolytic 0.33 μ F 50V	1	L205	4 2559 70031	Coil (33 mH)	1
C463	CB4 7 5160 0000V	Non-polar 4.7 μ F 16V	1	L401	4 2729 70210	Coil (6.8 mH)	1
C464	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	L402	4 2729 70210	Coil (6.8 mH)	1
C465	CB4 7 5160 0000V	Non-polar 4.7 μ F 16V	1	L403	4 2599 70660	Coil	1
C466	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	L404	4 2599 70670	DOLBY Coil	1
C467	CB4 7 5160 0000V	Non-polar 4.7 μ F 16V	1	L405	4 2559 70031	Coil (33 mH)	1
C468	CD4 7 5100 0000V	Electrolytic 4.7 μ F 10V	1	L603	4 2539 70301	Coil (100 μ H)	1
C470	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1				

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
PRE-AMPLIFIER P.C.B. ASSY			
P201	4 2229 72961	Potentiometer (B-300)	1
P202	4 2229 72570	Potentiometer (B-10k)	1
P203	4 2229 72972	Potentiometer (B-200k)	1
P401	4 2229 72961	Potentiometer (B-300)	1
P402	4 2229 72570	Potentiometer (B-10k)	1
P403	4 2229 72972	Potentiometer (B-200k)	1
P601	4 2229 72840	Potentiometer (B-20k)	1
Q201	203 5 5100 53660	Transistor, 2SC536	1
Q202	203 5 5100 69362	Transistor, 2SC693	1
Q203	203 5 5100 69362	Transistor, 2SC693	1
Q204	203 5 5100 53650	Transistor, 2SC536	1
Q205	203 5 5100 53660	Transistor, 2SC536	1
Q206	203 5 5100 69362	Transistor, 2SC693	1
Q207	203 5 5100 53650	Transistor, 2SC536	1
Q209	203 5 5100 53650	Transistor, 2SC536	1
Q210	203 5 5100 53660	Transistor, 2SC536	1
Q212	203 5 5100 53650	Transistor, 2SC536	1
Q213	203 5 5100 53660	Transistor, 2SC536	1
Q214	203 5 5100 53650	Transistor, 2SC536	1
Q215	4 2039 70432	Transistor, 2SC1815	1
Q216	4 2039 70432	Transistor, 2SC1815	1
Q217	203 5 5100 53660	Transistor, 2SC536	1
Q228	203 5 4570 73450	Transistor, 2SD734	1
Q232	203 5 5100 53650	Transistor, 2SC536	1
Q401	203 5 5100 53660	Transistor, 2SC536	1
Q402	203 5 5100 69362	Transistor, 2SC693	1
Q403	203 5 5100 69362	Transistor, 2SC693	1
Q404	203 5 5100 53650	Transistor, 2SC536	1
Q405	203 5 5100 53660	Transistor, 2SC536	1
Q406	203 5 5100 69362	Transistor, 2SC693	1
Q407	203 5 5100 53650	Transistor, 2SC536	1
Q409	203 5 5100 53650	Transistor, 2SC536	1
Q410	203 5 5100 53660	Transistor, 2SC536	1
Q412	203 5 5100 53650	Transistor, 2SC536	1
Q413	203 5 5100 53660	Transistor, 2SC536	1
Q414	203 5 5100 53650	Transistor, 2SC536	1
Q415	4 2039 70432	Transistor, 2SC1815	1
Q416	4 2039 70432	Transistor, 2SC1815	1
Q417	203 5 5100 53660	Transistor, 2SC536	1
Q428	203 5 4570 73450	Transistor, 2SD734	1
Q432	203 5 5100 53650	Transistor, 2SC536	1
Q607	203 5 4570 73450	Transistor, 2SD734	1
Q608	203 5 4570 73450	Transistor, 2SD734	1
Q609	4 2039 70431	Transistor, 2SC1815	1
Q610	4 2039 70431	Transistor, 2SC1815	1
Q611	4 2039 70431	Transistor, 2SC1815	1
Q612	4 2039 70431	Transistor, 2SC1815	1
Q631	203 5 4570 73450	Transistor, 2SD734	1
Q632	203 5 5100 53660	Transistor, 2SC536	1
R201	RD1 0 4251 JM000	Carbon 1M ohm 1/4W ±5%	1
R202	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R203	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R204	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R205	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R206	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R207	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R208	RD6 8 4251 JM000	Carbon 680k ohm 1/4W ±5%	1
R209	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W ±5%	1
R210	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1
R211	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R212	RD2 2 4251 JM000	Carbon 220k ohm 1/4W ±5%	1
R213	RD2 7 4251 JM000	Carbon 270k ohm 1/4W ±5%	1
R214	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R215	RD4 7 2251 JM000	Carbon 4.7k ohm 1/4W ±5%	1
R216	RD8 2 0251 JM000	Carbon 82 ohm 1/4W ±5%	1
R217	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R218	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R226	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R227	RD1 0 0251 JM000	Carbon 10 ohm 1/4W ±5%	1
R228	RD3 9 3251 JM000	Carbon 39k ohm 1/4W ±5%	1

Ref. No.	Part No.	Description	Q'ty
PRE-AMPLIFIER P.C.B. ASSY			
R229	RD1 2 4251 JM000	Carbon 120k ohm 1/4W ±5%	1
R230	RD2 0 2251 JM000	Carbon 2k ohm 1/4W ±5%	1
R231	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R232	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R233	RD3 9 2251 JM000	Carbon 3.9k ohm 1/4W ±5%	1
R234	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R235	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R236	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R237	RD4 7 4251 JM000	Carbon 470k ohm 1/4W ±5%	1
R238	RD5 6 1251 JM000	Carbon 560 ohm 1/4W ±5%	1
R239	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R240	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R241	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R242	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R243	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1
R244	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R245	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R246	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W ±5%	1
R247	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R248	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R249	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1
R250	RD1 5 4251 JM000	Carbon 150k ohm 1/4W ±5%	1
R251	RD3 3 4251 JM000	Carbon 330k ohm 1/4W ±5%	1
R252	RD2 7 4251 JM000	Carbon 270k ohm 1/4W ±5%	1
R253	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R254	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R255	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R256	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R257	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R258	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R259	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R260	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R261	RD1 2 1251 JM000	Carbon 120 ohm 1/4W ±5%	1
R262	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R263	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R264	RD1 2 1251 JM000	Carbon 180 ohm 1/4W ±5%	1
R265	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R266	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W ±5%	1
R267	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1
R268	RD1 5 3251 JM000	Carbon 15k ohm 1/4W ±5%	1
R269	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W ±5%	1
R270	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R271	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W ±5%	1
R273	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1
R274	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1
R289	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R304	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W ±5%	1
R305	RD1 2 3251 JM000	Carbon 12k ohm 1/4W ±5%	1
R306	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1
R307	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R308	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R311	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R312	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R364	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R367	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R369	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R401	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R402	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R403	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R404	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1
R405	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R406	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1
R407	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R408	RD6 8 4251 JM000	Carbon 680k ohm 1/4W ±5%	1
R409	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W ±5%	1
R410	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1
R411	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R412	RD2 2 4251 JM000	Carbon 220k ohm 1/4W ±5%	1
R413	RD2 7 4251 JM000	Carbon 270k ohm 1/4W ±5%	1
R414	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
PRE-AMPLIFIER P.C.B. ASSY				PRE-AMPLIFIER P.C.B. ASSY			
R415	RD4 7 2251 JM000	Carbon 4.7k ohm 1/4W ±5%	1	R611	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1
R416	RD8 2 0251 JM000	Carbon 82 ohm 1/4W ±5%	1	R612	RD5 6 A251 JM000	Carbon 5.6 ohm 1/4W ±5%	1
R417	RD3 3 2251 JN000	Carbon 3.3k ohm 1/4W ±5%	1	R613	RD5 6 A251 JM000	Carbon 5.6 ohm 1/4W ±5%	1
R418	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1	R614	RD1 8 3251 JM000	Carbon 18k ohm 1/4W ±5%	1
R426	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1	R615	RD1 8 3251 JM000	Carbon 18k ohm 1/4W ±5%	1
R427	RD1 0 0251 JM000	Carbon 10 ohm 1/4W ±5%	1	R616	RD1 0 0251 JM000	Carbon 10 ohm 1/4W ±5%	1
R428	RD3 9 3251 JM000	Carbon 39k ohm 1/4W ±5%	1	R619	RD1 0 1251 JM000	Carbon 100 ohm 1/4W ±5%	1
R429	RD1 2 4251 JM000	Carbon 120k ohm 1/4W ±5%	1	R623	RD1 0 0251 JM000	Carbon 10 ohm 1/4W ±5%	1
R430	RD2 0 2251 JM000	Carbon 2k ohm 1/4W ±5%	1	R632	RD5 6 1251 JM000	Carbon 560 ohm 1/4W ±5%	1
R431	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	R680	RD2 2 0251 JM000	Carbon 22 ohm 1/4W ±5%	1
R432	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	R685	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R433	RD3 9 2251 JM000	Carbon 3.9k ohm 1/4W ±5%	1	R722	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R434	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1	R723	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R435	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1	R724	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R436	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1	R725	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R437	RD4 7 4251 JM000	Carbon 470k ohm 1/4W ±5%	1	R726	RD1 0 A251 JM000	Carbon 1 ohm 1/4W ±5%	1
R438	RD5 6 1251 JM000	Carbon 560 ohm 1/4W ±5%	1	T601	4 2589 71670	OSC Transformer	1
R439	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1	TH601	204 5 9000 00200	Thermister, SDT20	1
R440	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1	FUNCTION SWITCH P.C.B. ASSY			
R441	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1		4 1329 76230	Function Switch P.C.B. Assy	1
R442	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	S4	4 2319 73740	Slide Switch Lever (Tape Select)	1
R443	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1	S5	4 2319 73512	Slide Switch Lever (Beat Cancel)	1
R444	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1	S6	4 2319 73230	Slide Switch Lever (DOLBY NR)	1
R445	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	S7	4 2319 73230	Slide Switch Lever (Record)	1
R446	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W ±5%	1		4 2369 70740	RT Pin	1
R447	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1	CN61	4 2369 73190	Connector 4P	1
R448	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	CN62	4 2369 71482	Connector 3P	1
R449	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1	CN64	4 2369 73180	Connector 3P	1
R450	RD1 5 4251 JM000	Carbon 150k ohm 1/4W ±5%	1	CN65	4 2369 71482	Connector 3P	1
R451	RD3 3 4251 JM000	Carbon 330k ohm 1/4W ±5%	1	CN66	4 2369 73210	Connector 6P	1
R452	RD2 7 4251 JM000	Carbon 270k ohm 1/4W ±5%	1	CN67	4 2369 73220	Connector 7P	1
R453	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1	CN68	4 2369 71482	Connector 3P	1
R454	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1	CN69	4 2369 71452	Connector 6P	1
R455	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1		4 2439 71410	Flat Wire 3	1
R456	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1		4 2439 71421	Flat Wire 4	1
R457	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1		4 2439 71450	Flat Wire 6	1
R458	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1		4 2439 71460	Flat Wire 7	1
R459	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1	C610	CD1 0 6160 0000V	Electrolytic 10 μF 16V	1
R460	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	R618	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1
R461	RD1 2 1251 JM000	Carbon 120 ohm 1/4W ±5%	1	R678	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1
R462	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1	R681	RD5 6 3251 JM000	Carbon 56k ohm 1/4W ±5%	1
R463	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	R682	RD8 2 2251 JM000	Carbon 8.2k ohm 1/4W ±5%	1
R464	RD1 8 1251 JM000	Carbon 180 ohm 1/4W ±5%	1	R729	RD2 2 1251 JM000	Carbon 220 ohm 1/4W ±5%	1
R465	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1	CONTROL P.C.B. ASSY			
R466	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W ±5%	1		4 1329 76240	Control P.C.B. Assy	1
R467	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1	S11	4 2319 74720	Slide Switch Lever (Mode)	1
R468	RD1 5 3251 JM000	Carbon 15k ohm 1/4W ±5%	1	CN2	4 2359 75210	Connector 11P Assy	1
R469	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W ±5%	1	CN26	4 2369 71611	Connector 9P Side	1
R470	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	CN35	4 2369 73200	Connector 5P	1
R471	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W ±5%	1	CN36	4 2369 73190	Connector 4P	1
R473	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1	CN37	4 2369 72920	Connector 5P	1
R474	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1	CN38	4 2369 72920	Connector 5P	1
R489	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1	CN62	4 2359 75118	Connector 3P Assy	1
R504	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W ±5%	1		4 2369 70740	RT Pin	8
R505	RD1 2 3251 JM000	Carbon 12k ohm 1/4W ±5%	1	C243	CD2 2 5500 0000V	Electrolytic 2.2 μF 50V	1
R506	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1	C282	CD1 0 5160 0000V	Electrolytic 1 μF 16V	1
R507	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1	C283	CC1 0 1500 KE00C	Ceramic 100 pF 50V ±10%	1
R508	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W ±5%	1	C284	CD1 0 6160 0000V	Electrolytic 10 μF 16V	1
R511	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1	C286	CC1 0 2500 KE00C	Ceramic 0.001 μF 50V ±10%	1
R512	RD1 0 5251 JM000	Carbon 1M ohm 1/4W ±5%	1	C324	CD1 0 5160 0000V	Electrolytic 1 μF 16V	1
R564	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1	C325	CD1 0 4500 0002V	Electrolytic 0.1 μF 50V	1
R567	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1	C326	CD1 0 6160 0000V	Electrolytic 10 μF 16V	1
R569	RD2 2 3251 JM000	Carbon 22k ohm 1/4W ±5%	1	C327	CD1 0 5160 0000V	Electrolytic 1 μF 16V	1
R601	RD6 8 1251 JM000	Carbon 680 ohm 1/4W ±5%	1	C328	CD1 0 5160 0000V	Electrolytic 1 μF 16V	1
R603	RD1 8 1251 JM000	Carbon 180 ohm 1/4W ±5%	1	C329	CD1 0 5160 0000V	Electrolytic 1 μF 16V	1
R604	RD6 8 1251 JM000	Carbon 680 ohm 1/4W ±5%	1	C330	CD1 0 5160 0000V	Electrolytic 1 μF 16V	1
R607	RD6 8 1251 JM000	Carbon 680 ohm 1/4W ±5%	1	C331	CD1 0 4500 0002V	Electrolytic 0.1 μF 50V	1
R608	RD5 6 2251 JM000	Carbon 5.6k ohm 1/4W ±5%	1	C332	CA1 5 5160 M000V	Aluminum 1.5 μF 16V ±20%	1
R609	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1				
R610	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1				

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty	Ref. No.	Part No.	Description	Q'ty
CONTROL P.C.B. ASSY				CONTROL P.C.B. ASSY			
C333	CM2 7 3500 K00SV	Mylar 0.027 μ F 50V \pm 10%	1	Q623	203 5 5100 53660	Transistor, 2SC536	1
C334	CD2 2 4500 0002V	Electrolytic 0.22 μ F 50V	1	Q624	203 5 5100 53650	Transistor, 2SC536	1
C335	CM1 0 3500 K00SV	Mylar 0.01 μ F 50V \pm 10%	1	Q625	203 5 5100 53650	Transistor, 2SC536	1
C336	CM8 2 3500 K00SV	Mylar 0.082 μ F 50V \pm 10%	1	Q626	203 5 5100 53650	Transistor, 2SC536	1
C337	CC2 7 2500 KE00C	Ceramic 0.0027 μ F 50V \pm 10%	1	Q627	203 5 5100 53660	Transistor, 2SC536	1
C338	CM2 7 3500 K00SV	Mylar 0.027 μ F 50V \pm 10%	1	Q633	203 5 7200 60850	Transistor, 2SA608	1
C339	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	R272	RD1 0 4251 JM000	Carbon 100k ohm 1/4W \pm 5%	1
C340	CM8 2 2500 K00SV	Mylar 0.0082 μ F 50V \pm 10%	1	R275	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
C443	CD2 2 5500 0000V	Electrolytic 2.2 μ F 50V	1	R276	RD1 2 4251 JM000	Carbon 120k ohm 1/4W \pm 5%	1
C482	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	R277	RD5 6 4251 JM000	Carbon 560k ohm 1/4W \pm 5%	1
C483	CC1 0 1500 KE00C	Ceramic 100 pF 50V \pm 10%	1	R288	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
C484	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	R290	RD2 7 3251 JM000	Carbon 27k ohm 1/4W \pm 5%	1
C486	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	R291	RD4 7 2251 JM000	Carbon 4.7k ohm 1/4W \pm 5%	1
C524	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	R292	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
C525	CD1 0 4500 0002V	Electrolytic 0.1 μ F 50V	1	R310	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W \pm 5%	1
C526	CD1 0 6160 0000V	Electrolytic 10 μ F 16V	1	R331	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W \pm 5%	1
C527	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	R332	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1
C528	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	R333	RD1 0 4251 JM000	Carbon 100k ohm 1/4W \pm 5%	1
C529	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	R334	RD1 0 4251 JM000	Carbon 100k ohm 1/4W \pm 5%	1
C530	CD1 0 5160 0000V	Electrolytic 1 μ F 16V	1	R335	RD1 0 5251 JM000	Carbon 1M ohm 1/4W \pm 5%	1
C531	CD1 0 4500 0002V	Electrolytic 0.1 μ F 50V	1	R336	RD1 0 4251 JM000	Carbon 100k ohm 1/4W \pm 5%	1
C532	CA1 5 5160 M000V	Aluminum 1.5 μ F 16V \pm 20%	1	R337	RD1 0 5251 JM000	Carbon 1M ohm 1/4W \pm 5%	1
C533	CM2 7 3500 K00SV	Mylar 0.027 μ F 50V \pm 10%	1	R338	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W \pm 5%	1
C534	CD2 2 4500 0002V	Electrolytic 0.22 μ F 50V	1	R339	RD1 2 4251 JM000	Carbon 120k ohm 1/4W \pm 5%	1
C535	CM1 0 3500 K00SV	Mylar 0.01 μ F 50V \pm 10%	1	R340	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W \pm 5%	1
C536	CM8 2 3500 K00SV	Mylar 0.082 μ F 50V \pm 10%	1	R341	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1
C537	CC2 7 2500 KE00C	Ceramic 0.0027 μ F 50V \pm 10%	1	R342	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W \pm 5%	1
C538	CM2 7 3500 K00SV	Mylar 0.027 μ F 50V \pm 10%	1	R343	RD3 9 1251 JM000	Carbon 390 ohm 1/4W \pm 5%	1
C539	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	R344	RD6 8 3251 JM000	Carbon 68k ohm 1/4W \pm 5%	1
C540	CM8 2 2500 K00SV	Mylar 0.0082 μ F 50V \pm 10%	1	R345	RD8 2 1251 JM000	Carbon 820 ohm 1/4W \pm 5%	1
C608	CD2 2 7100 0000V	Electrolytic 220 μ F 10V	1	R346	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
C609	CD2 2 7160 0000V	Electrolytic 220 μ F 16V	1	R347	RD3 9 1251 JM000	Carbon 390 ohm 1/4W \pm 5%	1
C633	CI1 0 4500 KF00C	Boundary 0.1 μ F 50V \pm 10%	1	R348	RD5 6 3251 JM000	Carbon 56k ohm 1/4W \pm 5%	1
C634	CD4 7 7160 0000V	Electrolytic 470 μ F 16V	1	R349	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W \pm 5%	1
C655	CD4 7 7160 0000V	Electrolytic 470 μ F 16V	1	R350	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
C656	CD4 7 4160 0000V	Electrolytic 0.47 μ F 16V	1	R351	RD3 9 1251 JM000	Carbon 390 ohm 1/4W \pm 5%	1
C657	CD1 0 5100 0000V	Electrolytic 1 μ F 10V	1	R352	RD4 7 3251 JM000	Carbon 47k ohm 1/4W \pm 5%	1
C658	CT2 2 6100 M00DV	Tantalum 22 μ F 10V \pm 20%	1	R353	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W \pm 5%	1
C659	CD1 0 5100 0000V	Electrolytic 1 μ F 10V	1	R354	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
C660	CD3 3 6100 0000V	Electrolytic 33 μ F 10V	1	R355	RD3 9 1251 JM000	Carbon 390 ohm 1/4W \pm 5%	1
C661	CD1 0 5100 0000V	Electrolytic 1 μ F 10V	1	R356	RD3 9 3251 JM000	Carbon 39k ohm 1/4W \pm 5%	1
C662	CD3 3 6100 0000V	Electrolytic 33 μ F 10V	1	R357	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W \pm 5%	1
C663	CC1 0 2500 KE00C	Ceramic 0.001 μ F 50V \pm 10%	1	R358	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
C664	CD4 7 4100 0000V	Electrolytic 0.47 μ F 10V	1	R359	RD3 9 1251 JM000	Carbon 390 ohm 1/4W \pm 5%	1
C678	CD4 7 4100 0000V	Electrolytic 0.47 μ F 10V	1	R360	RD3 3 3251 JM000	Carbon 33k ohm 1/4W \pm 5%	1
D207	202 5 9110 18820	Diode, 1S188	1	R361	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W \pm 5%	1
D208	202 5 9110 18820	Diode, 1S188	1	R362	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
D407	202 5 9110 18820	Diode, 1S188	1	R472	RD1 0 4251 JM000	Carbon 100k ohm 1/4W \pm 5%	1
D408	202 5 9110 18820	Diode, 1S188	1	R475	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
D658	202 5 2810 44210	Diode, DS442	1	R476	RD1 2 4251 JM000	Carbon 120k ohm 1/4W \pm 5%	1
D659	202 5 2810 44210	Diode, DS442	1	R477	RD5 6 4251 JM000	Carbon 560k ohm 1/4W \pm 5%	1
D660	202 5 2810 44210	Diode, DS442	1	R488	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
D661	202 5 2810 44210	Diode, DS442	1	R490	RD2 7 3251 JM000	Carbon 27k ohm 1/4W \pm 5%	1
D662	202 5 2810 44210	Diode, DS442	1	R491	RD4 7 2251 JM000	Carbon 4.7k ohm 1/4W \pm 5%	1
D663	202 5 3210 06810	Diode, GZA6.8L	1	R492	RD1 0 2251 JM000	Carbon 1k ohm 1/4W \pm 5%	1
IC605	4 2069 70462	IC, MB3614M	1	R510	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W \pm 5%	1
IC606	4 2069 71020	IC, M54832P	1	R531	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W \pm 5%	1
L602	4 2539 70410	Choke Coil (500 mH)	1	R532	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1
Q211	203 5 5100 53660	Transistor, 2SC536	1	R533	RD1 0 4251 JM000	Carbon 100k ohm 1/4W \pm 5%	1
Q223	203 5 5100 69362	Transistor, 2SC693	1	R534	RD1 0 4251 JM000	Carbon 100k ohm 1/4W \pm 5%	1
Q224	203 5 5100 69362	Transistor, 2SC693	1	R535	RD1 0 5251 JM000	Carbon 1M ohm 1/4W \pm 5%	1
Q225	203 5 5100 69362	Transistor, 2SC693	1	R536	RD1 0 4251 JM000	Carbon 100k ohm 1/4W \pm 5%	1
Q226	203 5 5100 69362	Transistor, 2SC693	1	R537	RD1 0 5251 JM000	Carbon 1M ohm 1/4W \pm 5%	1
Q227	203 5 5100 69362	Transistor, 2SC693	1	R538	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W \pm 5%	1
Q411	203 5 5100 53660	Transistor, 2SC536	1	R539	RD1 2 4251 JM000	Carbon 120k ohm 1/4W \pm 5%	1
Q423	203 5 5100 69362	Transistor, 2SC693	1	R540	RD6 8 2251 JM000	Carbon 6.8k ohm 1/4W \pm 5%	1
Q424	203 5 5100 69362	Transistor, 2SC693	1	R541	RD1 0 1251 JM000	Carbon 100 ohm 1/4W \pm 5%	1
Q425	203 5 5100 69362	Transistor, 2SC693	1	R542	RD3 3 2251 JM000	Carbon 3.3k ohm 1/4W \pm 5%	1
Q426	203 5 5100 69362	Transistor, 2SC693	1	R543	RD3 9 1251 JM000	Carbon 390 ohm 1/4W \pm 5%	1
Q427	203 5 5100 69362	Transistor, 2SC693	1	R544	RD6 8 3251 JM000	Carbon 68k ohm 1/4W \pm 5%	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
CONTROL P.C.B. ASSY			
R545	RD8 2 1251 JM000	Carbon 820 ohm 1/4W ±5%	1
R546	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R547	RD3 9 1251 JM000	Carbon 390 ohm 1/4W ±5%	1
R548	RD5 6 3251 JM000	Carbon 56k ohm 1/4W ±5%	1
R549	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W ±5%	1
R550	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R551	RD3 9 1251 JM000	Carbon 390 ohm 1/4W ±5%	1
R552	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1
R553	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W ±5%	1
R554	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R555	RD3 9 1251 JM000	Carbon 390 ohm 1/4W ±5%	1
R556	RD3 9 3251 JM000	Carbon 39k ohm 1/4W ±5%	1
R557	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W ±5%	1
R558	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R559	RD3 9 1251 JM000	Carbon 390 ohm 1/4W ±5%	1
R560	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1
R561	RD1 2 2251 JM000	Carbon 1.2k ohm 1/4W ±5%	1
R562	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R620	RH1 0 0102 KZ000	Metal 10 ohm 1W ±10%	1
R649	RH8 2 0102 KZ000	Metal 82 ohm 1W ±10%	1
R650	RH1 2 1102 KZ000	Metal 120 ohm 1W ±10%	1
R651	RH1 8 1102 KZ000	Metal 180 ohm 1W ±10%	1
R652	RH1 0 1102 KZ000	Metal 100 ohm 1W ±10%	1
R653	RH1 5 1102 KZ000	Metal 150 ohm 1W ±10%	1
R654	RH2 2 1102 KZ000	Metal 220 ohm 1W ±10%	1
R683	RD3 3 0251 JM000	Carbon 33 ohm 1/4W ±5%	1
R687	RD2 2 4251 JM000	Carbon 220k ohm 1/4W ±5%	1
R688	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W ±5%	1
R689	RD4 7 0251 JM000	Carbon 47 ohm 1/4W ±5%	1
R691	RD8 2 2251 JM000	Carbon 8.2k ohm 1/4W ±5%	1
R692	RD1 8 3251 JM000	Carbon 18k ohm 1/4W ±5%	1
R693	RD8 2 2251 JM000	Carbon 8.2k ohm 1/4W ±5%	1
R694	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1
R695	RD1 0 0251 JM000	Carbon 10 ohm 1/4W ±5%	1
R696	RD1 0 4251 JM000	Carbon 100k ohm 1/4W ±5%	1
R697	RD1 0 2251 JM000	Carbon 1k ohm 1/4W ±5%	1
R698	RD3 3 3251 JM000	Carbon 33k ohm 1/4W ±5%	1
R699	RD5 6 3251 JM000	Carbon 56k ohm 1/4W ±5%	1
R701	RD1 0 3251 JM000	Carbon 10k ohm 1/4W ±5%	1
R702	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1
R703	RD6 8 1251 JM000	Carbon 680 ohm 1/4W ±5%	1
R711	RD4 7 3251 JM000	Carbon 47k ohm 1/4W ±5%	1
R712	RD6 8 1251 JM000	Carbon 680 ohm 1/4W ±5%	1
LED METER P.C.B. ASSY			
	4 1329 76250	LED Meter P.C.B. Assy	1
	141 2 4729 05000	Staple 5	5
	141 2 4729 04700	Staple 10	3
CN5	4 2359 75172	Connector 5P Assy	1
S28	4 2319 70510	Micro Switch (Battery Check)	1
C321	CD4 7 5250 0002V	Electrolytic 4.7 μF 25V	1
C322	CD1 0 5500 0002V	Electrolytic 1 μF 50V	1
C373	CD4 7 6160 0002V	Electrolytic 47 μF 16V	1
C521	CD4 7 5250 0002V	Electrolytic 4.7 μF 25V	1
C522	CD1 0 5500 0002V	Electrolytic 1 μF 50V	1
C573	CD4 7 6160 0002V	Electrolytic 47 μF 16V	1
D204	205 5 9040 44210	Diode, DS442	1
D205	4 2029 71310	LED, LN06302P	1
D206	4 2029 71300	LED, LN03202P	1
D404	205 5 9040 44210	Diode, DS442	1
D405	4 2029 71310	LED, LN06302P	1
D406	4 2029 71300	LED, LN03202P	1
IC204	206 5 2461 41910	IC, LB1419	1
IC404	206 5 2461 41910	IC, LB1419	1
P204	4 2229 72963	Potentiometer (B-1k)	1
P404	4 2229 72963	Potentiometer (B-1k)	1
Q221	203 5 7200 60860	Transistor, 2SA608	1
Q222	203 5 7200 60860	Transistor, 2SA608	1
Q230	203 5 7200 60860	Transistor, 2SA608	1
Q421	203 5 7200 60860	Transistor, 2SA608	1

Ref. No.	Part No.	Description	Q'ty
LED METER P.C.B. ASSY			
Q422	203 5 7200 60860	Transistor, 2SA608	1
Q430	203 5 7200 60860	Transistor, 2SA608	1
R321	RD5 6 0251 JS000	Carbon 56 ohm 1/4W ±5%	1
R322	RD5 6 0251 JS000	Carbon 56 ohm 1/4W ±5%	1
R323	RD1 5 3251 JM000	Carbon 15k ohm 1/4W ±5%	1
R324	RD9 1 3251 JN000	Carbon 91k ohm 1/4W ±5%	1
R325	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R326	RD2 2 3251 JN000	Carbon 22k ohm 1/4W ±5%	1
R327	RD2 2 3251 JN000	Carbon 22k ohm 1/4W ±5%	1
R328	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R329	RD2 2 1251 JS000	Carbon 220 ohm 1/4W ±5%	1
R330	RD2 7 2251 JS000	Carbon 2.7k ohm 1/4W ±5%	1
R366	RD1 2 1251 JS000	Carbon 120 ohm 1/4W ±5%	1
R521	RD5 6 0251 JS000	Carbon 56 ohm 1/4W ±5%	1
R522	RD5 6 0251 JS000	Carbon 56 ohm 1/4W ±5%	1
R523	RD1 5 3251 JM000	Carbon 15 k ohm 1/4W ±5%	1
R524	RD9 1 3251 JN000	Carbon 91k ohm 1/4W ±5%	1
R525	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R526	RD2 2 3251 JN000	Carbon 22k ohm 1/4W ±5%	1
R527	RD2 2 3251 JN000	Carbon 22k ohm 1/4W ±5%	1
R528	RD1 0 3251 JN000	Carbon 10k ohm 1/4W ±5%	1
R529	RD2 2 1251 JS000	Carbon 220 ohm 1/4W ±5%	1
R530	RD2 7 2251 JS000	Carbon 2.7k ohm 1/4W ±5%	1
R566	RD1 2 1251 JS000	Carbon 120 ohm 1/4W ±5%	1
ASF SWITCH P.C.B. ASSY			
	4 1329 76260	ASF Switch P.C.B. Assy	1
S12	4 2319 74730	Touch Switch (ASF 1)	1
S13	4 2319 74730	Touch Switch (ASF 2)	1
S14	4 2319 74730	Touch Switch (ASF 3)	1
S15	4 2319 74730	Touch Switch (ASF 4)	1
S16	4 2319 74730	Touch Switch (ASF 5)	1
S17	4 2319 74730	Touch Switch (ASF 6)	1
S18	4 2319 74730	Touch Switch (ASF 7)	1
CN26	4 2359 75151	Connector 9P Assy	1
D664	4 2029 71560	LED, LN222RP (ASF 7)	1
D665	4 2029 71560	LED, LN222RP (ASF 6)	1
D666	4 2029 71560	LED, LN222RP (ASF 5)	1
D667	4 2029 71560	LED, LN222RP (ASF 4)	1
D668	4 2029 71560	LED, LN222RP (ASF 3)	1
D669	4 2029 71560	LED, LN222RP (ASF 2)	1
D670	4 2029 71560	LED, LN222RP (ASF 1)	1
R704	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R705	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R706	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R707	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R708	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R709	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
R710	RD1 5 2251 JM000	Carbon 1.5k ohm 1/4W ±5%	1
OPERATION INDICATOR P.C.B. ASSY			
	4 1329 76270	Operation Indicator P.C.B. Assy	1
	4 2269 34320	LED Chassis P.C.B.	1
CN45	4 2359 75162	Connector 4P Assy	1
D629	4 2029 71570	LED, LN224RP (Pause)	1
D630	4 2029 71580	LED, PG5532TX (Play)	1
D631	4 2029 71560	LED, LN222RP (Record)	1
HEADPHOEN JACK P.C.B. ASSY			
	4 1329 76280	Headphone Jack P.C.B. Assy	1
	4 2269 34250	Headphone P.C.B.	1
J7	4 2359 73246	Jack 1P (Headphones)	1
CN58	4 2359 75181	Connector 7P Assy	1
POWER INDICATOR P.C.B. ASSY			
	4 1329 76290	Power Indicator P.C.B. Assy	1
D637	4 2029 71560	LED, LN222RP (Power)	1
	4 2269 34310	LED Power P.C.B.	1
CN70	4 2359 75119	Connector 3P Assy	1

PARTS LIST (Continued)

Ref. No.	Part No.	Description	Q'ty
DOLBY INDICATOR P.C.B. ASSY			
D638	4 1329 76300	DOLBY Indicator P.C.B. Assy	1
	4 2029 71560	LED, LN222RP (DOLBY)	1
CN65	4 2269 34300	LED DOLBY P.C.B.	1
	4 2359 75117	Connector 3P Assy	1
	141 2 3769 11700	Spacer, Headphone	1
PLATE JACK ASSY			
	141 0 3679 02501	Jack Plate Assy	1
	4 2379 70630	Terminal	1
	141 2 3679 28301	Jack Plate	1
	141 2 4219 14300	Screw	1
SUB CONTROL P.C.B. ASSY			
CN44	4 1329 76181	Sub Control P.C.B. Assy	1
	4 2369 71561	Connector 3P	1
	4 2369 71571	Connector 4P	1
	4 2359 75162	Connector 4P Assy	1
CN56	4 2369 70740	RT Pin	6
	4 2369 71621	Connector 10P Side	1
L601	4 2539 70301	Micro Inductor (100 μ H)	1
L604	4 2539 70410	Micro Inductor (500 μ H)	1
C641	CD1 0 7160 0001V	Electrolytic 100 μ F 16V	1
C642	CD1 0 7160 0001V	Electrolytic 100 μ F 16V	1
C643	CD4 7 5160 0000V	Electrolytic 4.7 μ F 16V	1
C644	CD4 7 6100 0001V	Electrolytic 47 μ F 10V	1
C645	CD3 3 6100 0001V	Electrolytic 33 μ F 10V	1
C646	CD1 0 7160 0001V	Electrolytic 100 μ F 16V	1
C665	CD1 0 6160 0001V	Electrolytic 10 μ F 16V	1
C668	CD4 7 6160 0001V	Electrolytic 47 μ F 16V	1
C669	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1
C674	CD1 0 7160 0000V	Electrolytic 100 μ F 16V	1
C675	CD4 7 5160 0000V	Electrolytic 4.7 μ F 16V	1
D611	202 5 2470 13540	Diode, DS135	1
D615	202 5 2470 13540	Diode, DS135	1
D619	205 5 9040 44210	Diode, DS442	1
D620	205 5 9040 44210	Diode, DS442	1
D621	205 5 9040 44210	Diode, DS442	1
D622	205 5 9040 44210	Diode, DS442	1
D623	205 5 9040 44210	Diode, DS442	1
D624	205 5 9040 44210	Diode, DS442	1
D625	205 5 9040 44210	Diode, DS442	1
D626	205 5 9040 44210	Diode, DS442	1
D627	202 5 2470 13540	Diode, DS135	1
D628	202 5 2470 13540	Diode, DS135	1
D671	205 5 9040 44210	Diode, DS442	1
D672	205 5 9040 44210	Diode, DS442	1
D673	205 5 9040 44210	Diode, DS442	1
D676	202 5 9110 18820	Diode, 1S188	1
Q615	203 5 5100 53650	Transistor, 2SC536	1
Q616	203 5 5100 53660	Transistor, 2SC536	1
Q617	203 5 5100 53650	Transistor, 2SC536	1
Q618	203 5 5100 53660	Transistor, 2SC536	1
Q619	203 5 5100 53650	Transistor, 2SC536	1
Q620	203 5 5100 53660	Transistor, 2SC536	1
Q629	203 5 5100 53660	Transistor, 2SC536	1
Q630	203 5 5100 53660	Transistor, 2SC536	1
Q634	203 5 5100 53650	Transistor, 2SC536	1
R631	RD2 7 2251 JN000	Carbon 2.7k ohm 1/4W \pm 5%	1
R633	RD6 8 3251 JN000	Carbon 68k ohm 1/4W \pm 5%	1
R634	RD4 7 3251 JN000	Carbon 47k ohm 1/4W \pm 5%	1
R635	RD5 6 3251 JN000	Carbon 56k ohm 1/4W \pm 5%	1
R636	RD1 0 0251 JN000	Carbon 10 ohm 1/4W \pm 5%	1
R637	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1
R638	RD1 0 1251 JN000	Carbon 100 ohm 1/4W \pm 5%	1
R639	RD2 2 2251 JN000	Carbon 2.2k ohm 1/4W \pm 5%	1
R640	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1
R641	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1
R642	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1
R643	RD8 2 1251 JN000	Carbon 820 ohm 1/4W \pm 5%	1
R644	RD5 6 2251 JN000	Carbon 5.6k ohm 1/4W \pm 5%	1

Ref. No.	Part No.	Description	Q'ty
SUB CONTROL P.C.B. ASSY			
R645	RD5 6 2251 JN000	Carbon 5.6k ohm 1/4W \pm 5%	1
R646	RD2 7 2251 JN000	Carbon 2.7k ohm 1/4W \pm 5%	1
R713	RD2 2 3251 JN000	Carbon 22k ohm 1/4W \pm 5%	1
R714	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1
R715	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1
R717	RD2 2 3251 JN000	Carbon 22k ohm 1/4W \pm 5%	1
R718	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1
R719	RD1 0 3251 JN000	Carbon 10k ohm 1/4W \pm 5%	1
R720	RD3 3 3251 JN000	Carbon 33k ohm 1/4W \pm 5%	1
R721	RD5 6 2251 JN000	Carbon 5.6k ohm 1/4W \pm 5%	1
R727	RD5 6 3251 JN000	Carbon 56k ohm 1/4W \pm 5%	1
R728	RD2 2 3251 JM000	Carbon 22k ohm 1/4W \pm 5%	1
LAMP SWITCH P.C.B. ASSY			
	4 6129 70540	Lamp P.C.B. Assy	1
	4 2269 34280	Lamp P.C.B.	1
	4 2369 70740	RT Pin	4
PL1	4 6129 70530	Lamp (Dial Light)	1
PL2	4 6129 70530	Lamp (Dial Light)	1
PL3	4 6129 70530	Lamp (Dial Light)	1
C619	CD3 3 7160 0000V	Electrolytic 330 μ F 16V	1
Q622	203 5 4570 73450	Transistor, 2SD734	1
R655	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W \pm 5%	1
R686	RD2 2 2251 JM000	Carbon 2.2k ohm 1/4W \pm 5%	1
R716	RD2 2 3251 JM000	Carbon 22k ohm 1/4W \pm 5%	1
MECHANISM			
S19	4 2319 74360	Leaf Switch (Motor)	1
S20	4 2319 74362	Leaf Switch (Trigger)	1
S21	4 2319 74360	Leaf Switch (Pause)	1
S22	4 2319 74360	Leaf Switch (OSC)	1
S23	4 2319 74360	Leaf Switch (ASF)	1
S24	4 2319 74360	Leaf Switch (Muting)	1
S25	4 2319 74360	Leaf Switch (Cue)	1
S26	4 2319 74360	Leaf Switch (Review)	1
HD1	4 2429 71670	R/P Head	1
HD2	4 2429 71580	Erase Head	1
SL1	4 2649 70341	Solenoid	1
	4 5279 71061	Motor	1
	141 0 3119 19300	Chassis Assy	1
	141 0 5219 07500	Flywheel Assy	1
	141 0 5319 05700	Take-up Reel Assy	1
	141 0 5419 02400	Pinch Roller Assy	1
	141 0 5519 07900	Eject Gear Assy	1
	141 0 5519 08000	Friction Assy	1
	141 0 7319 22200	Power Plate Assy	1
	141 0 7419 28700	Fast Wind Lever Assy	1
	141 0 7439 09500	Rewind Arm Assy	1
	141 0 7439 09600	Take-up Arm Assy	1
	141 2 1149 22800	Cabinet Compartment	1
	141 2 1249 25400	Cassette Lid Frame	1
	141 2 1249 26300	Cassette Lid Frame	1
	141 2 1319 18100	LED Tuning Window	1
	141 2 1449 47200	Compartment Plate	1
	141 2 1519 25800	LED Scale Plate	1
	141 2 1519 28201	Dial Plate	1
	141 2 1619 69700	Counter Knob	1
	141 2 1619 78200	Stop Button Plate	2
	141 2 1619 78300	Play Button Plate	2
	141 2 1619 78400	F.F. Rewind Button Plate	2
	141 2 3119 13300	Radio Chassis	1
	141 2 3169 15600	Chassis Bracket	1
	141 2 3169 15800	Chassis Bracket	1
	141 2 3519 52300	Flywheel Support	1
	141 2 3529 19900	Spacer, Motor	3
	141 2 3689 06800	LED Tuning Case	1
	141 2 3739 05500	LED Tuning Bracket	1
	141 2 3749 07400	Lamp Reflect	1
	141 2 3749 79000	Lamp Cover	1
	141 2 4219 05400	Screw Washer	2

PARTS LIST (Continued)

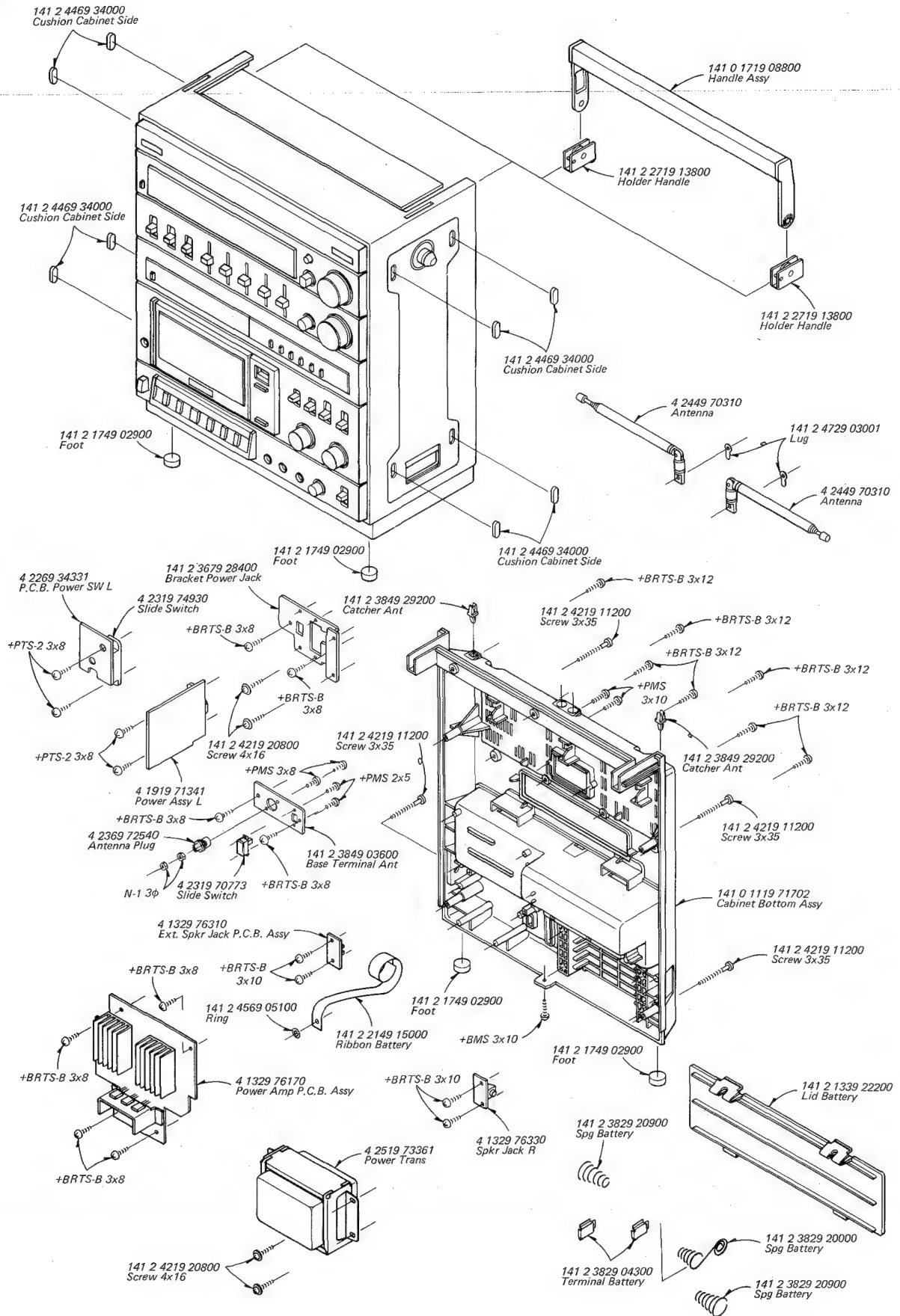
Ref. No.	Part No.	Description	Q'ty
MECHANISM			
	141 2 4219 13201	Screw Washer	5
	141 2 4219 14000	Screw	5
	141 2 4219 23000	Screw	2
	141 2 4219 24700	Screw, Pan Hd. Tapping-2 +M2.6x12	5
	141 2 4459 11800	Motor Cushion	3
	141 2 4459 25800	Brake Cover	2
	141 2 4539 06900	Washer	1
	141 2 4539 23600	Spacer, Band Switch	1
	141 2 4539 27100	Washer	1
	141 2 4619 07200	Pin Sleeve	5
	141 2 7539 13600	Plate Pin	5
	141 2 4629 00900	Record Click Lever Cap	1
	141 2 4729 00200	Lug	1
	141 2 4729 03400	Lug	1
	141 2 4729 04100	Lug	4
	141 2 5219 11800	Flywheel, Tuning	1
	141 2 5319 03500	Reel Fin	1
	141 2 5319 10300	Supply Reel Gear	1
	141 2 5369 00400	Reel Plate Cap	2
	141 2 5389 02100	Dial Drum	1
	141 2 5519 03300	Dial Roller A	5
	141 2 5519 04400	Intermediate Pulley	1
	141 2 5519 38200	Idler Gear	1
	141 2 5519 38600	Take-up Gear	1
	141 2 5519 38700	Fast Wind Gear	1
	141 2 5519 38800	Pulley Idler Gear	1
	141 2 5519 38900	Auto Shut-off Gear	1
	141 2 5519 39000	Actuator Gear	1
	141 2 5619 01400	Drive Belt	1
	141 2 5649 16600	Counter Belt	1
	141 2 5649 16800	Wind Belt	1
	141 2 5649 16900	Auto Shut-off Belt	1
	141 2 5739 06100	Flywheel Thrust	1
	141 2 6139 14100	Button Frame	1
	141 2 6139 14200	Frame Plate	1
	141 2 7149 05000	Brake	1
	141 2 7319 43500	Pause Plate	1
	141 2 7319 43601	Fast Wind Plate	1
	141 2 7319 43700	Stop Plate	1
	141 2 7319 43800	Play Plate	1
	141 2 7319 43901	Rewind Plate	1
	141 2 7319 44000	Record Plate	1
	141 2 7319 44100	Slide Base	1
	141 2 7319 44200	Button Lock Plate	1
	141 2 7319 44300	Lock Plate	1
	141 2 7319 44400	Control Plate	1
	141 2 7319 44600	Pause Latch Plate	1
	141 2 7319 44700	Select Plate	1
	141 2 7319 44800	Eject Plate	1
	141 2 7419 70500	Start Lever	1
	141 2 7419 70600	Stop Lever	1
	141 2 7419 70700	Review Lever	1
	141 2 7419 70900	Lock Plate Lever	1
	141 2 7419 71000	Stop Button Plate Lever	1
	141 2 7419 71100	Auto Shut-off Lever	1
	141 2 7419 71200	Eject Lock Lever	1
	141 2 7419 71300	Record Stop Lever	1
	141 2 7419 71400	Cassette Lid Lock	1
	141 2 7419 71500	Eject Lever	1
	141 2 7419 71600	Pause Lever	1
	141 2 7419 72700	Auto Shut-off Stop Lever	1
	141 2 7539 00500	Pin	1
	141 2 8119 07101	Counter	1
	141 2 8219 28100	Pointer	1
	141 2 8259 05900	Dial Roller	2
	141 2 8259 08900	Roller Plate	2
	141 2 8259 09000	Spacer, Button Lock	2
	141 2 8419 10100	Record Click Lever	1
	141 2 8429 05700	Interlock Plate	1
	141 2 8519 14500	Spring, Record Slide Plate	1

Ref. No.	Part No.	Description	Q'ty
MECHANISM			
	141 2 8519 19300	Spring, Brake	1
	141 2 8519 39300	Spring, Slide Base	1
	141 2 8519 41300	Spring, Lock-Lever	3
	141 2 8519 67901	Spring, Supply Reel	1
	141 2 8519 74300	Spring, Azimuth	1
	141 2 8539 39700	Spring, Cassette	1
	141 2 8539 39800	Spring, Base	1
	141 2 8539 41300	Spring, Eject Plate	1
	141 2 8549 00500	Spring, Pin	6
	141 2 8549 00700	Spring, Brake	3
	141 2 8549 00800	Spring, Plate	3
	141 2 8549 00900	Spring, Play Plate	1
	141 2 8549 01000	Spring, Record Plate	1
	141 2 8549 01100	Spring, Take-up Arm	2
	141 2 8549 01200	Spring, Rewind Arm	2
	141 2 8549 01300	Spring, Record Stop	1
	141 2 8549 01400	Spring, Auto Shut-off Pause	1
	141 2 8549 01500	Spring, Pinch Roller	1
	141 2 8549 01600	Spring, Cassette Lid Lock	1
	141 2 8549 01700	Spring, Cassette Up Lid	1
	141 2 8549 01800	Spring, Pause Lock	1
	141 2 8549 01900	Spring, Slide Base	1
	141 2 8549 02000	Spring, Start Lever	1
	141 2 8549 02100	Spring, Control Plate	1
	141 2 8549 02200	Spring, Start	1
	141 2 8549 03400	Spring, Button Plate	5
	141 2 8549 03401	Spring, Play Button	1
	141 2 8549 04400	Spring, Interlock	2
	141 2 8549 07400	Spring, Button Lock	1
	141 2 8549 07500	Spring, F.F. Plate	1
	141 2 8559 00200	Spring, Erase Head	1
	101 3 1302 00311	Screw, Pan Hd. +M2.0x3	2
	101 3 1302 60511	Screw, Pan Hd. +M2.6x5	2
	101 3 1302 60811	Screw, Pan Hd. +M2.6x8	3
	101 3 1702 00411	Screw, Bind Hd. +M2.0x4	1
	101 3 1702 00811	Screw, Bind Hd. +M2.0x8	1
	101 3 2502 01011	Screw, Cylinder Hd. -M2.0x10	1
	103 3 1302 00611	Screw, Pan Hd. Tapping-2 +M2.0x6	2
	103 3 1302 01011	Screw, Pan Hd. Tapping-2 +M2.0x10	1
	103 3 1302 60611	Screw, Pan Hd. Tapping-2 +M2.6x6	1
	103 3 1302 61011	Screw, Pan Hd. Tapping-2 +M2.6x10	3
	103 3 1702 00513	Screw, Bind Hd. Tapping-2 +M2.0x5	4
	103 3 1702 00711	Screw, Bind Hd. Tapping-2 +M2x7	1
	103 3 1702 00813	Screw, Bind Hd. Tapping-2 +M2.0x8	2
	110 3 1202 00013	Finished Washer M2.0	3
	110 3 9260 80024	Washer M2.6x8.0x0.2	2
	110 3 9310 60025	Washer M3.1x6.0x0.2	1
	112 3 1301 50082	E Ring M1.5	3
	112 3 1302 00082	E Ring M2.0	2
	143 3 1302 60611	Screw, Pan Hd. Tapping-B +M2.6x6	4
	143 3 1302 60811	Screw, Pan Hd. Tapping-B +M2.6x8	9
	143 3 1303 00611	Screw, Pan Hd. Tapping-B +M3.0x6	2
	143 3 1303 00811	Screw, Pan Hd. Tapping-B +M3.0x8	2
	143 3 1303 01011	Screw, Pan Hd. Tapping-B +M3.0x10	3
	143 3 1303 01018	Screw, Pan Hd. Tapping-B +M3.0x10	5
	143 3 1303 01611	Screw, Pan Hd. Tapping-B +M3.0x16	2
	143 3 1702 60818	Screw, Bind Hd. Tapping-B +M2.6x8	4
	103 3 1702 60611	Screw, Bind Hd. Tapping-2 +M2.6x6	2
C666	CB4 7 4160 0000V	Non-polar 0.47 μ F 16V	1

- NOTES: 1. Parts order must contain Model Number, Part Number and Description.
2. Ordering quantity of screws and resistors must be multiple of 10 pcs.

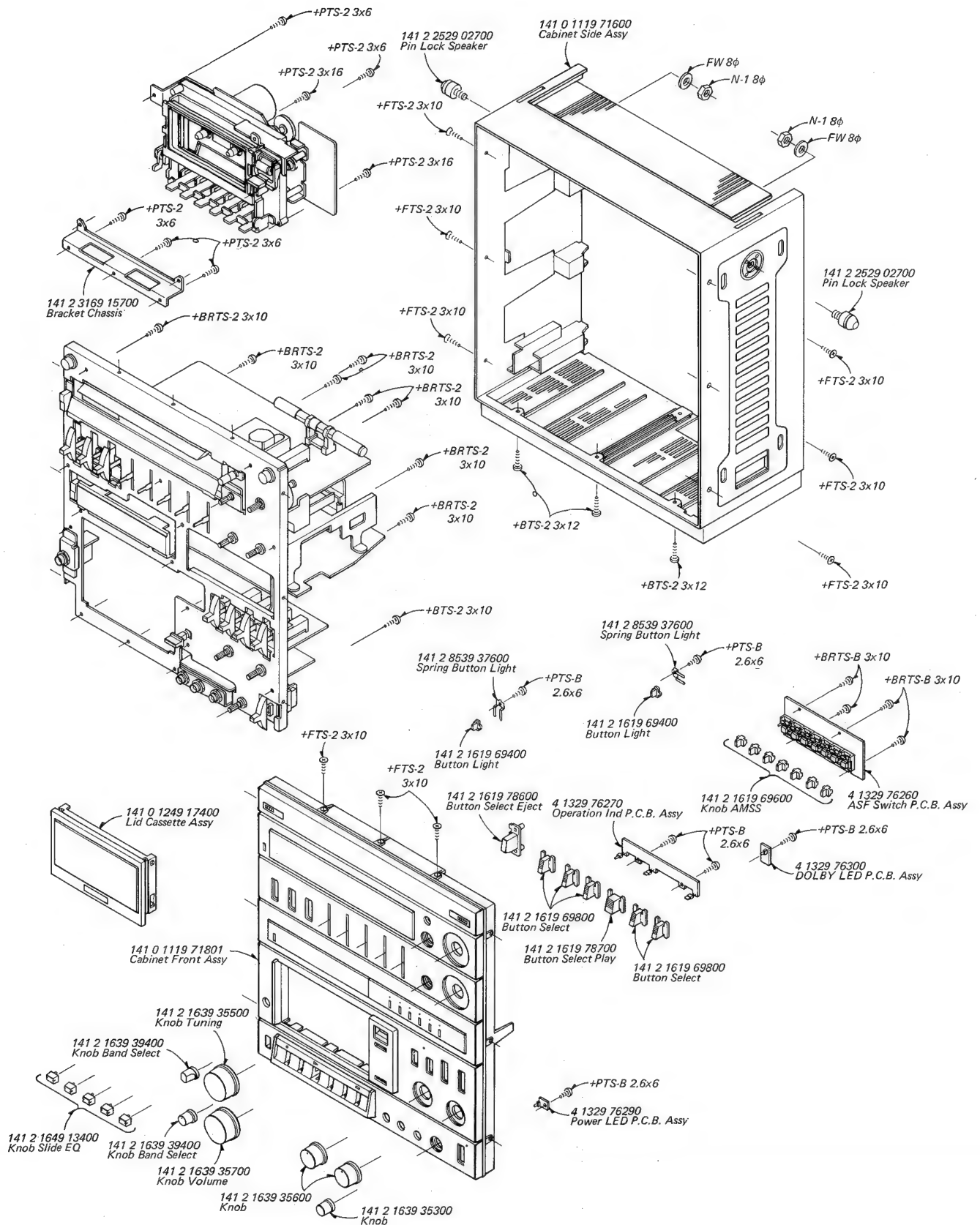
EXPLODED VIEW

(Cabinet -1)



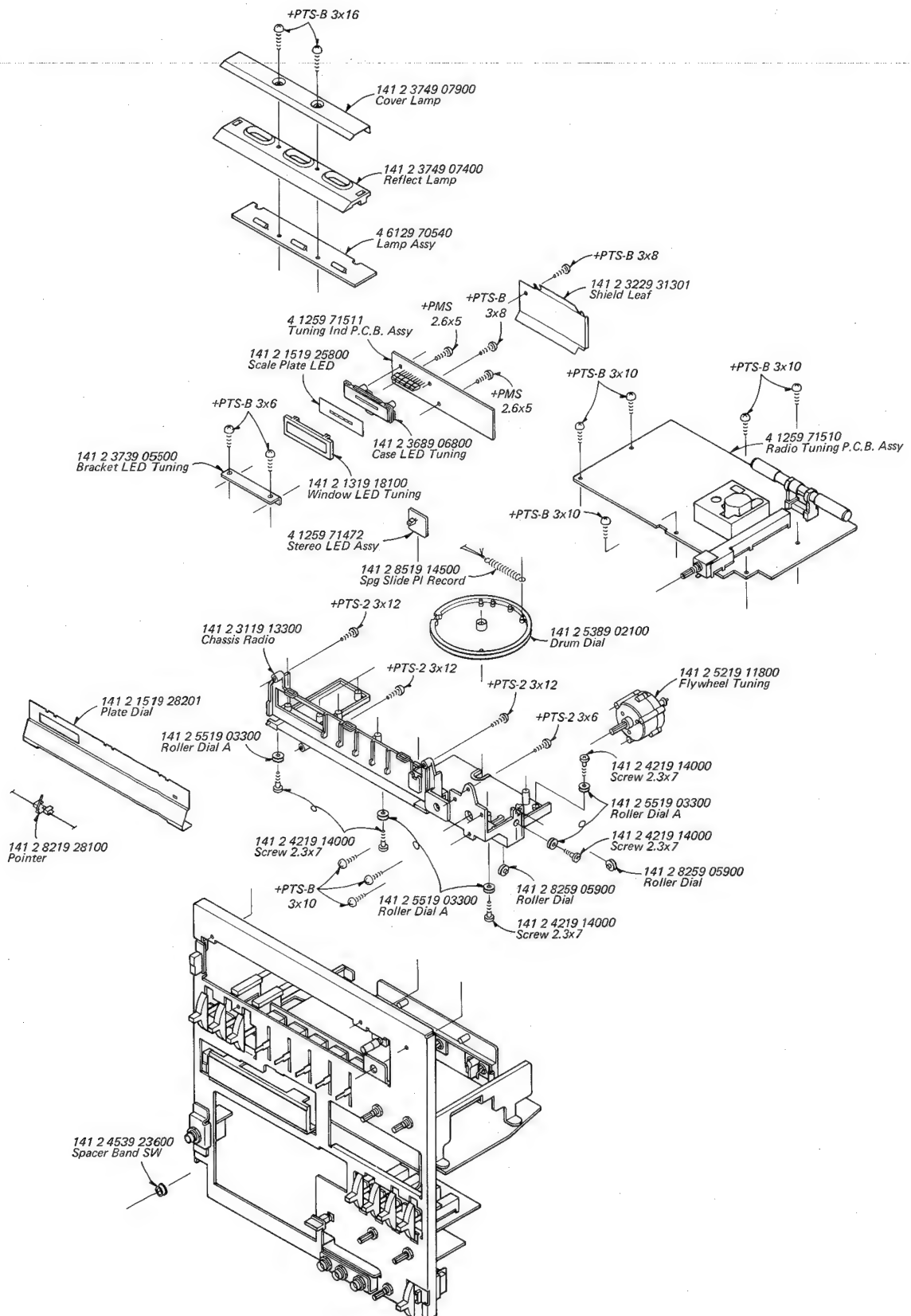
EXPLODED VIEW (Continued)

(Cabinet -2)



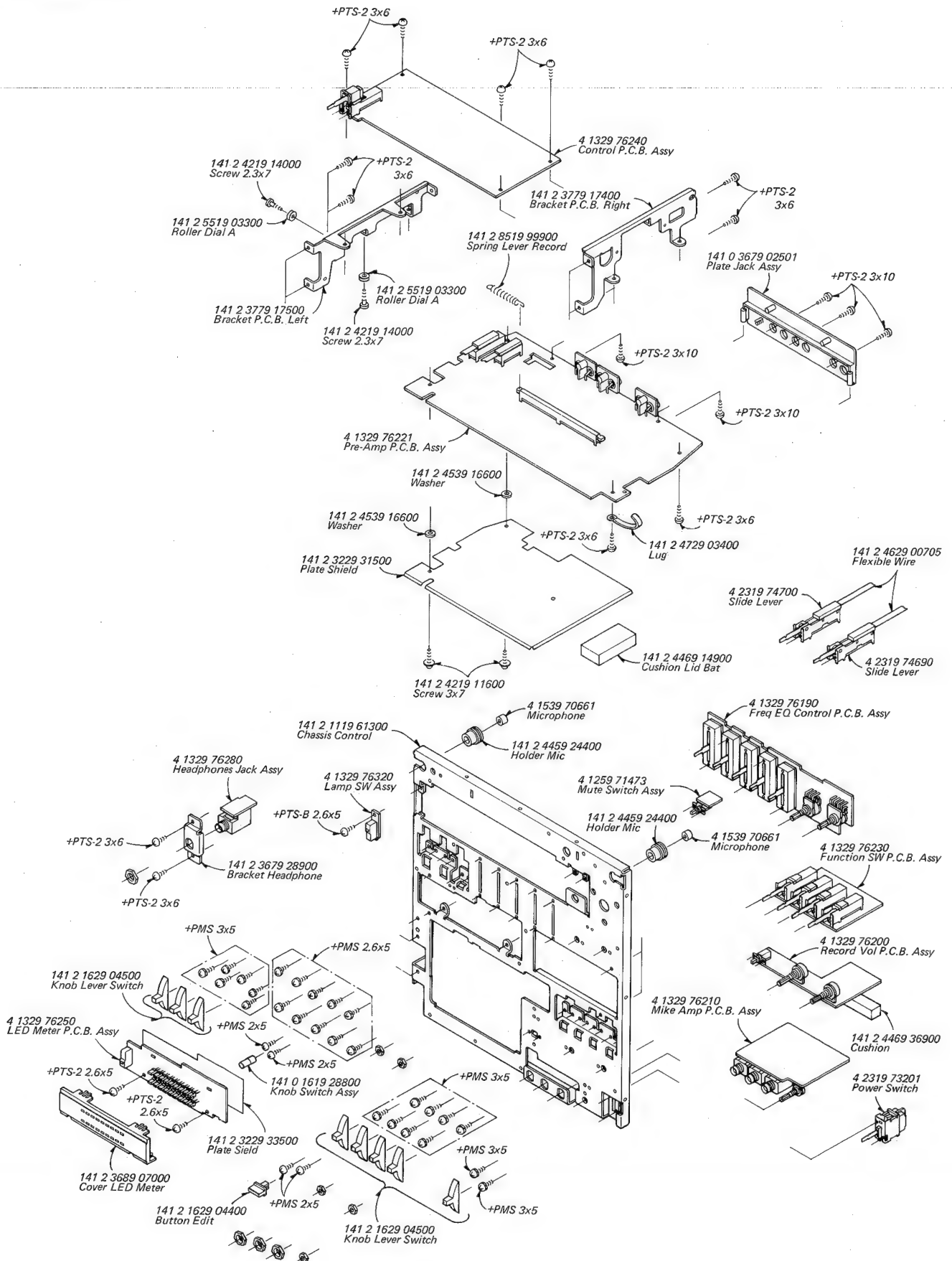
EXPLODED VIEW (Continued)

(Chassis -1)



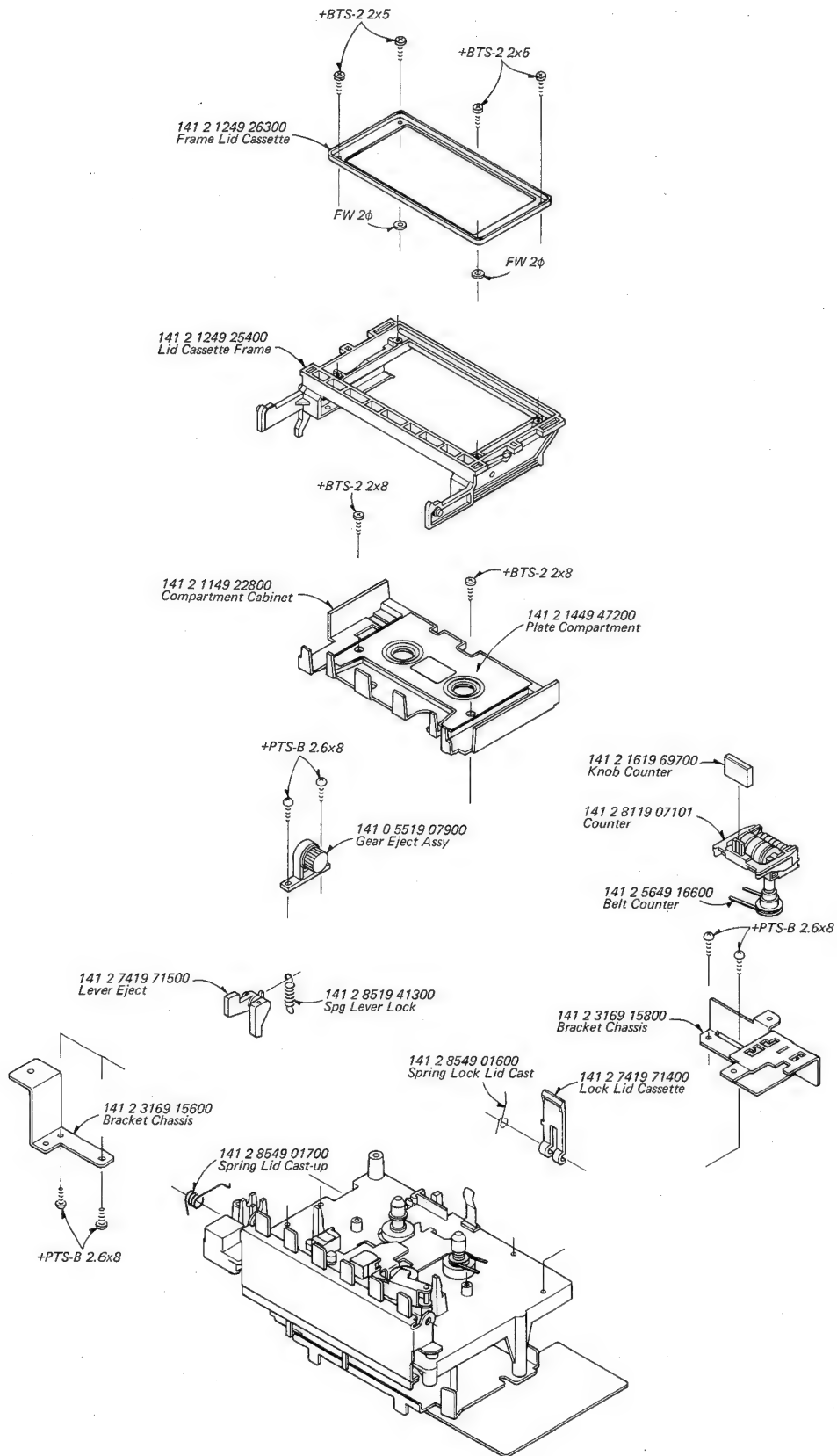
EXPLODED VIEW (Continued)

(Chassis -2)



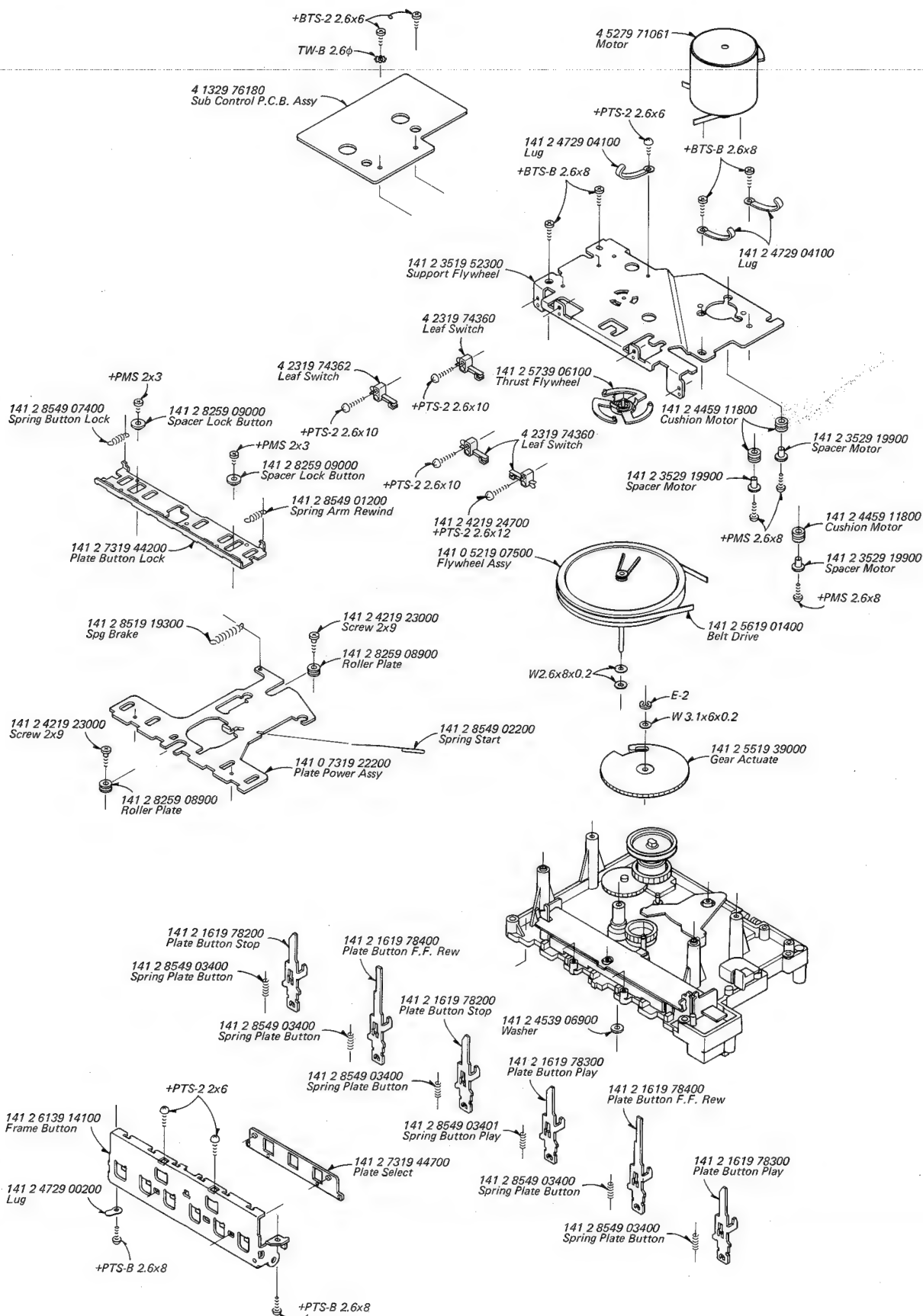
EXPLODED VIEW (Continued)

(Chassis -3)



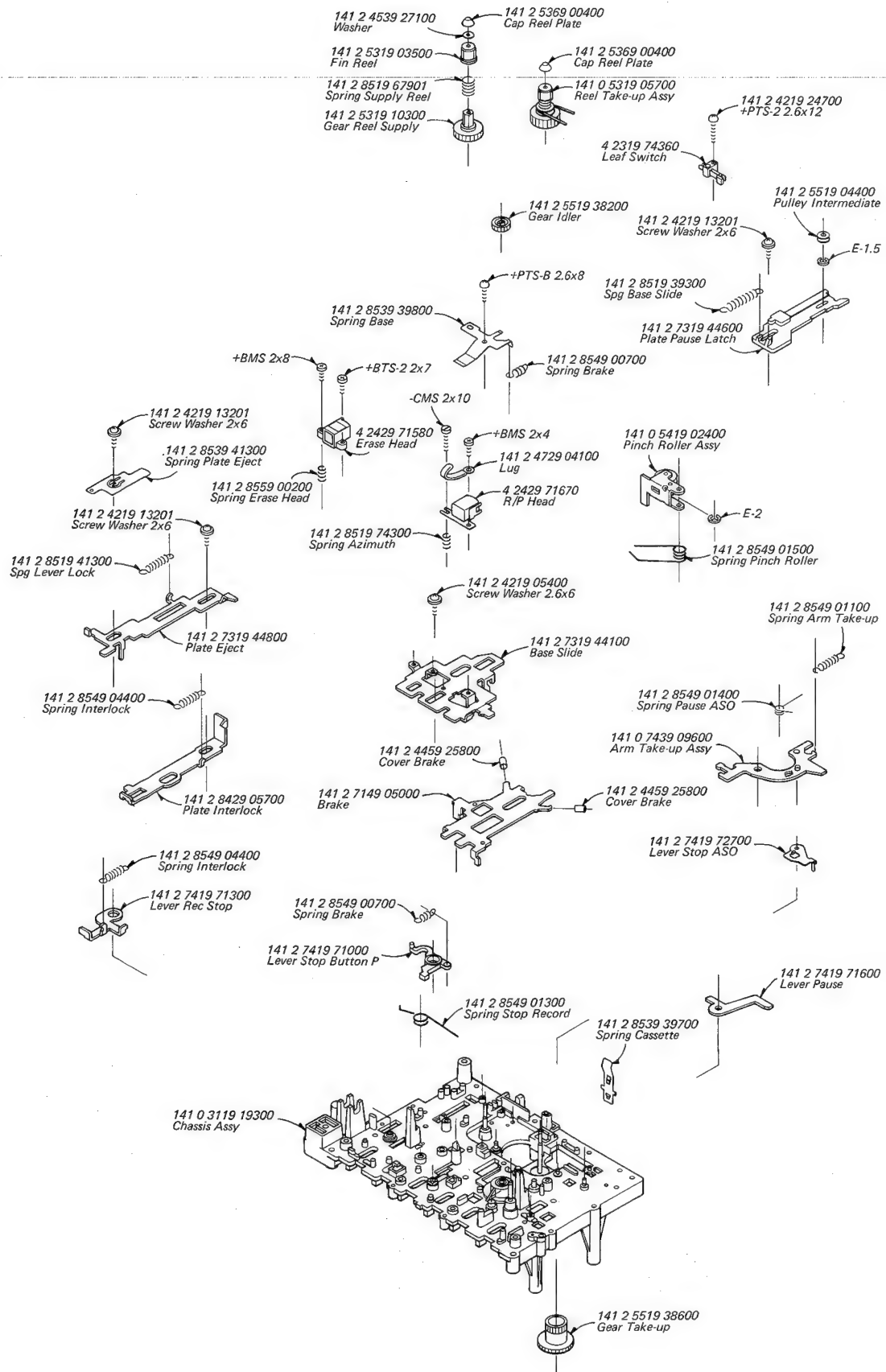
EXPLODED VIEW (Continued)

(Chassis -4)



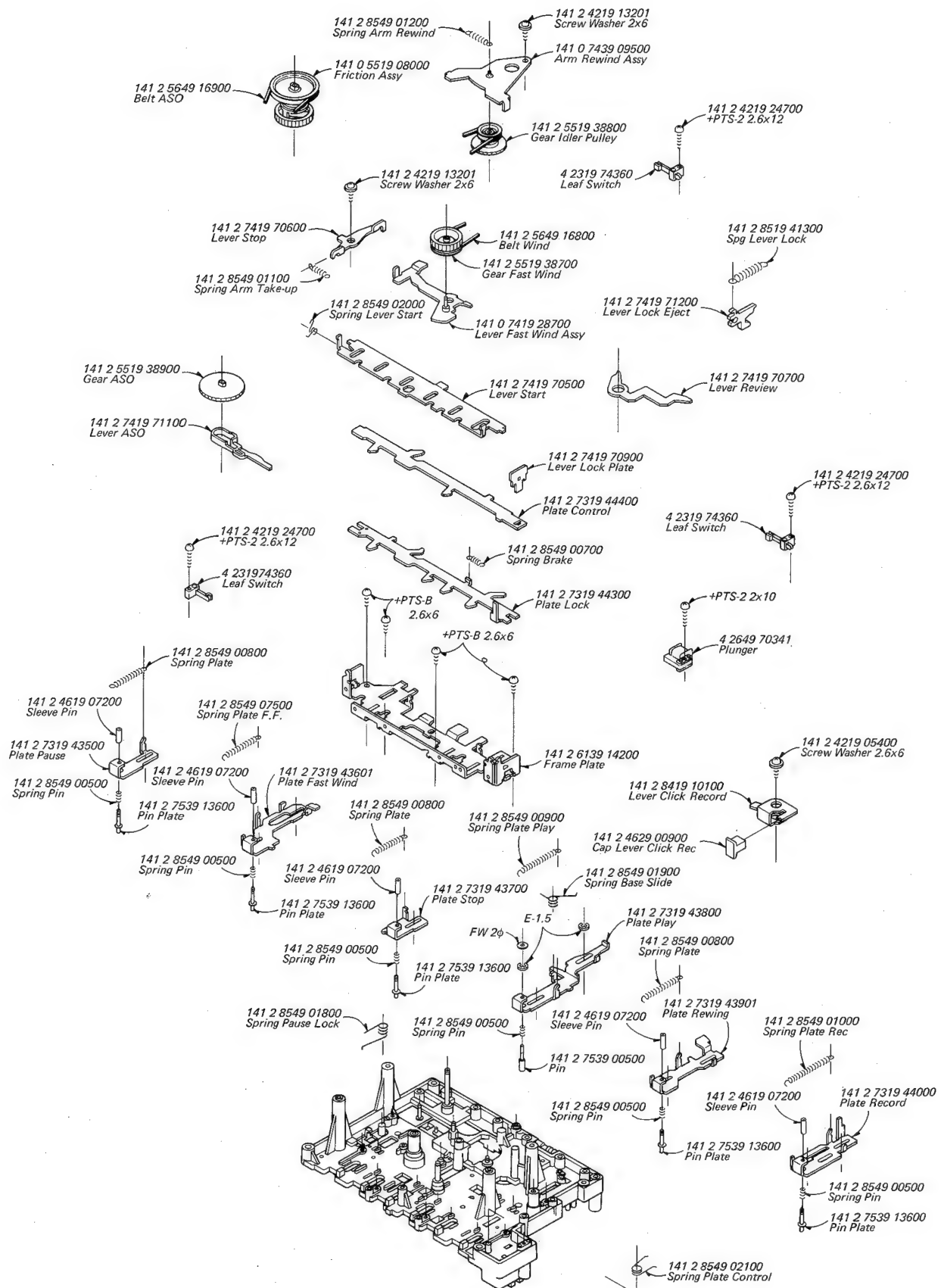
EXPLODED VIEW (Continued)

(Chassis -5)



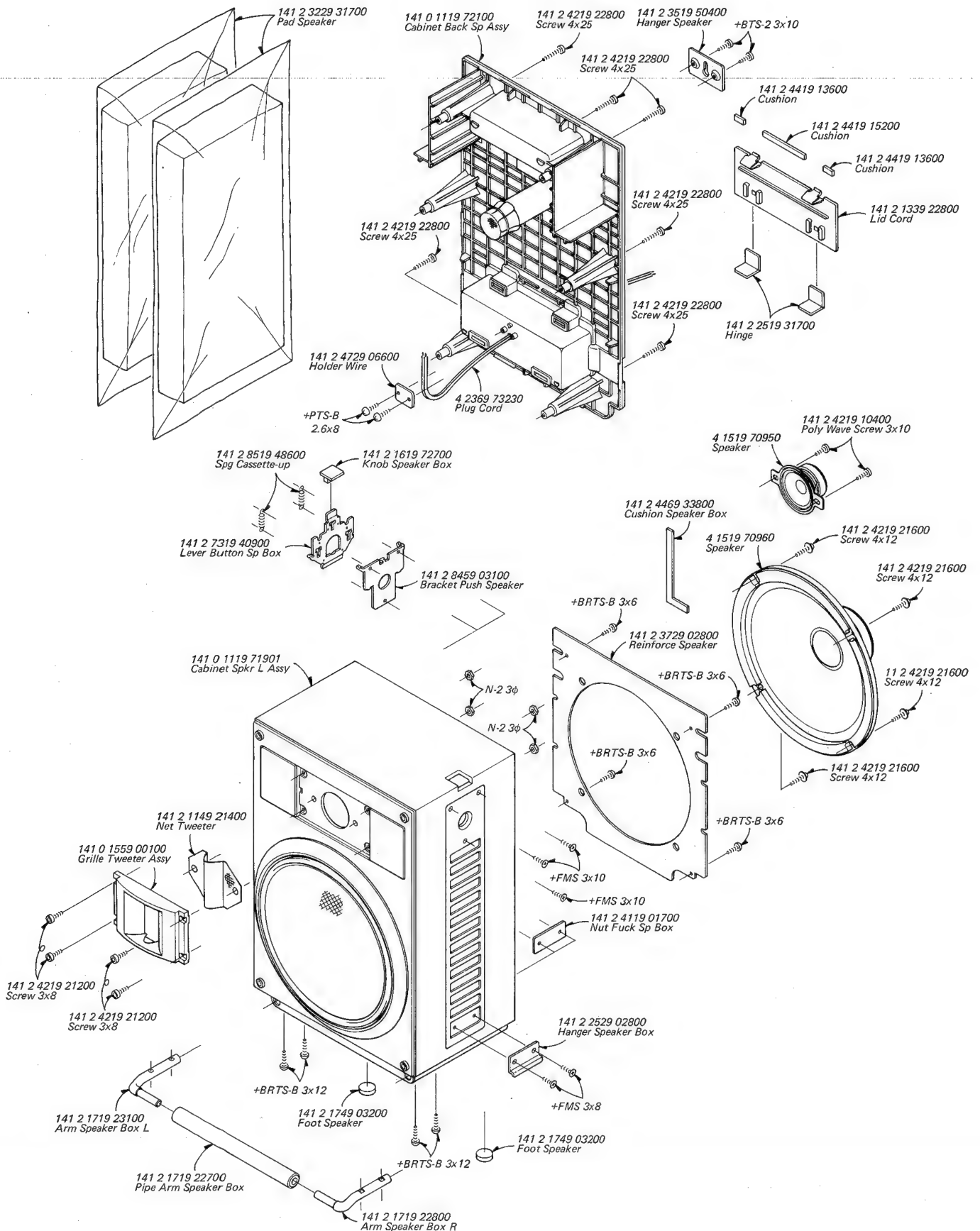
EXPLODED VIEW (Continued)

(Chassis -6)



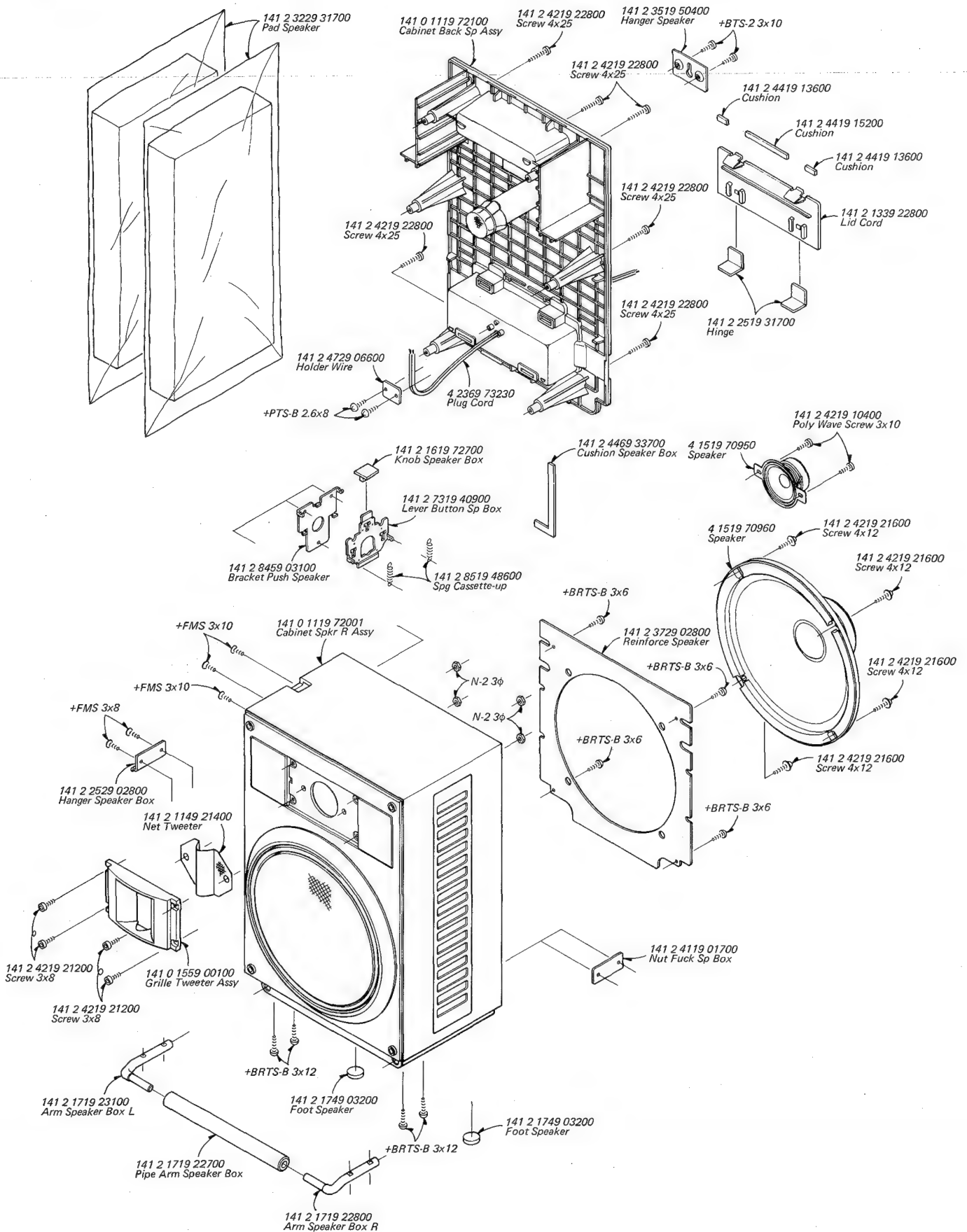
EXPLODED VIEW (Continued)

(Speaker L)

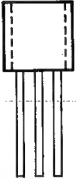
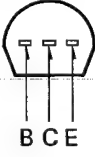
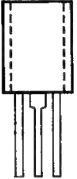
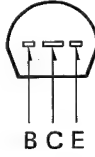
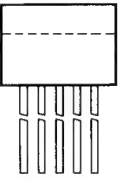
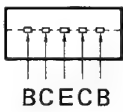
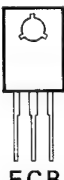

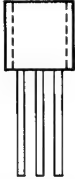
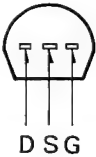


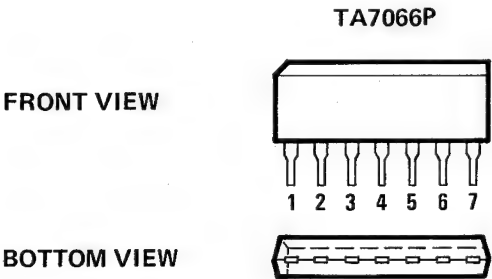
EXPLODED VIEW (Continued)

(Speaker R)

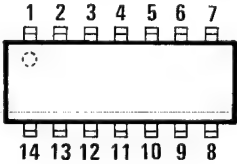


IC & TRANSISTOR LEAD IDENTIFICATION

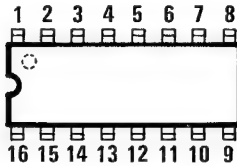
FRONT VIEW	BOTTOM VIEW	TRANSISTOR
		2SC693 2SC536 2SD734 2SA608 2SC1815 2SC1674 2SC1675
		2SD400
		2SC1583
		2SD612
		2SK195
TERMINAL NAME B⇒ BASE C⇒ COLLECTOR E⇒ EMITTER		



LM1111 BOTTOM VIEW

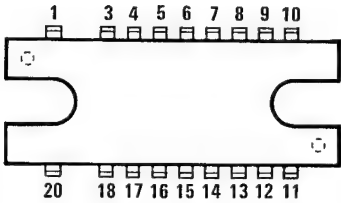


LB1419
μPC1018
μPC1167C
BA685
LA3155

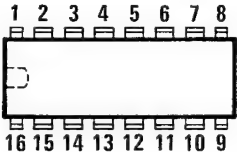


BOTTOM VIEW

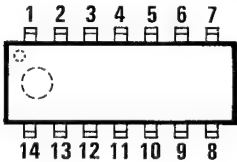
LA4125T BOTTOM VIEW



M54832P BOTTOM VIEW

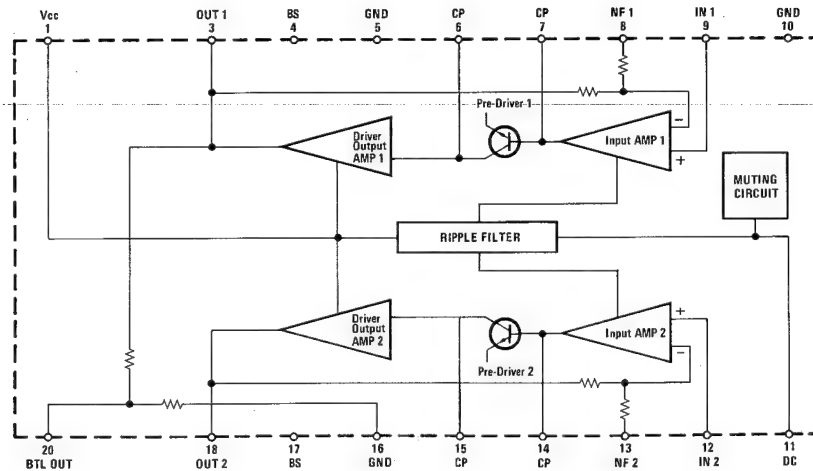


MB3614M BOTTOM VIEW

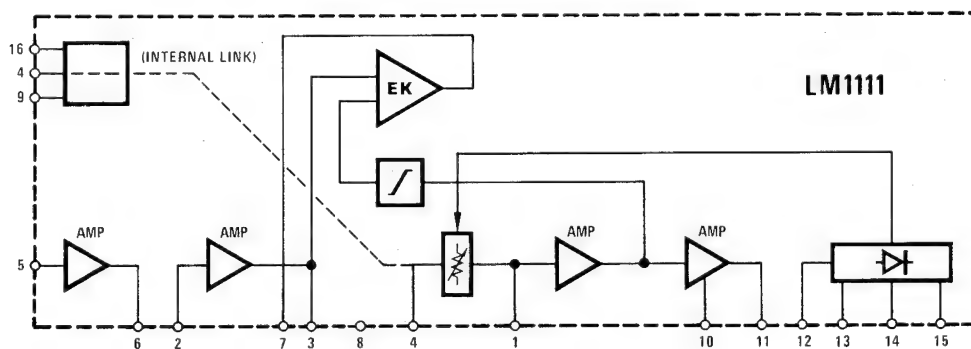


IC EQUIVALENT CIRCUIT & BLOCK DIAGRAM

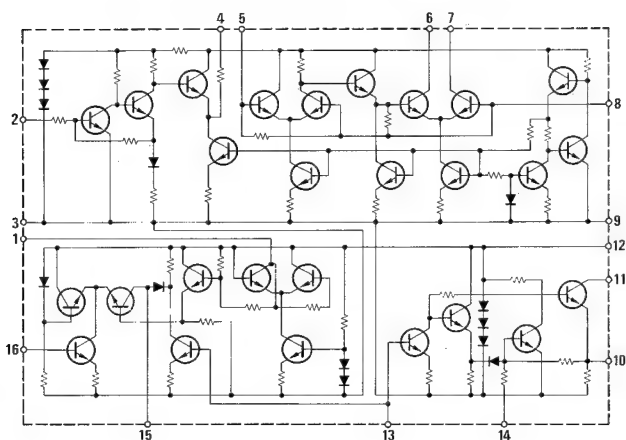
LA4125T BLOCK DIAGRAM



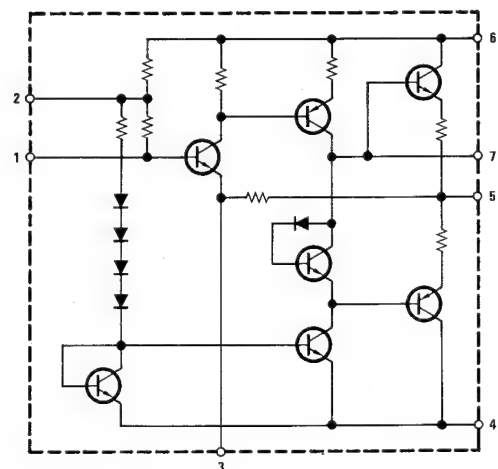
LM1111 BLOCK DIAGRAM



μPC1018 EQUIVALENT CIRCUIT

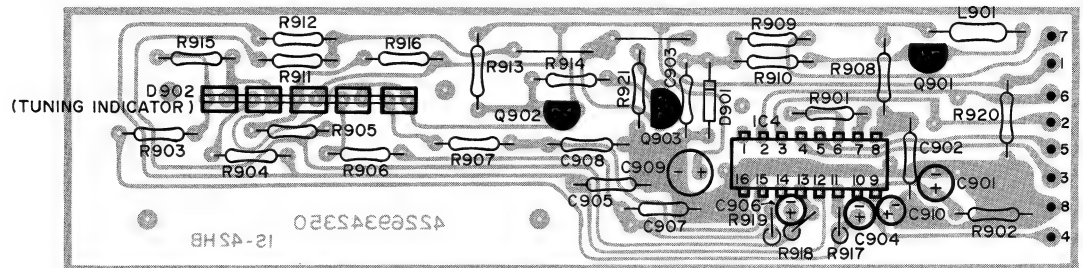


TA7066P EQUIVALENT CIRCUIT

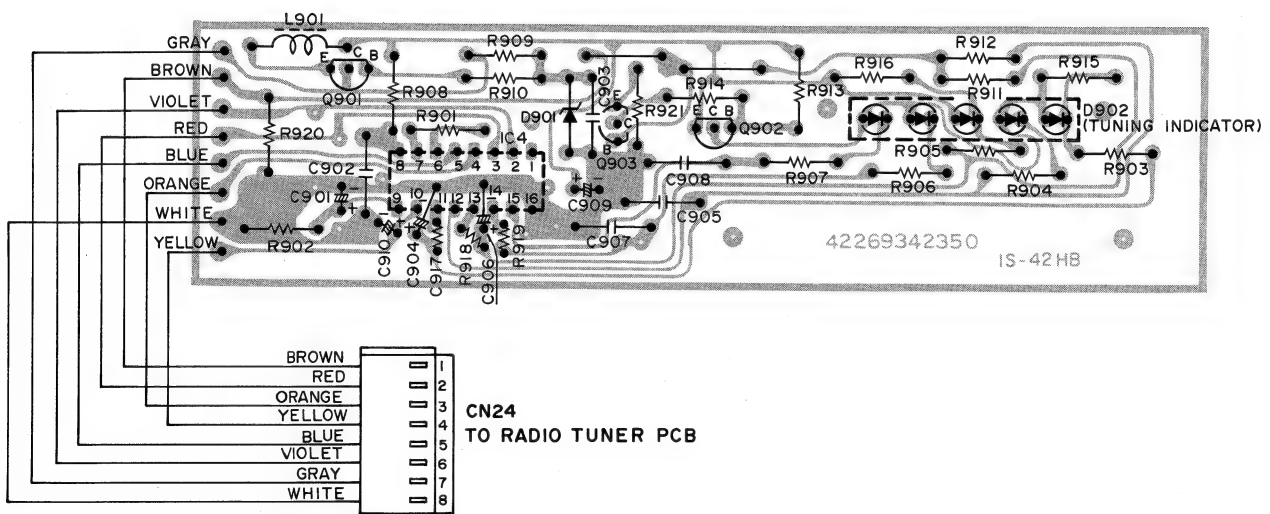


TUNING INDICATOR P.C.BOARD

(Top View)

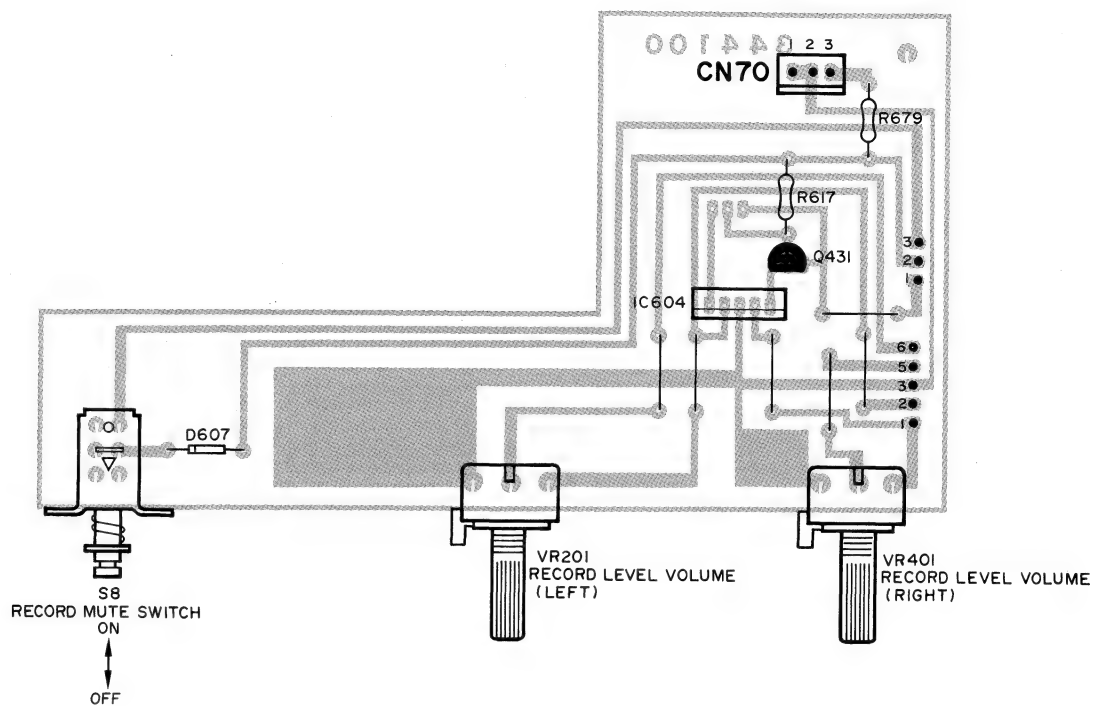


(Bottom View)

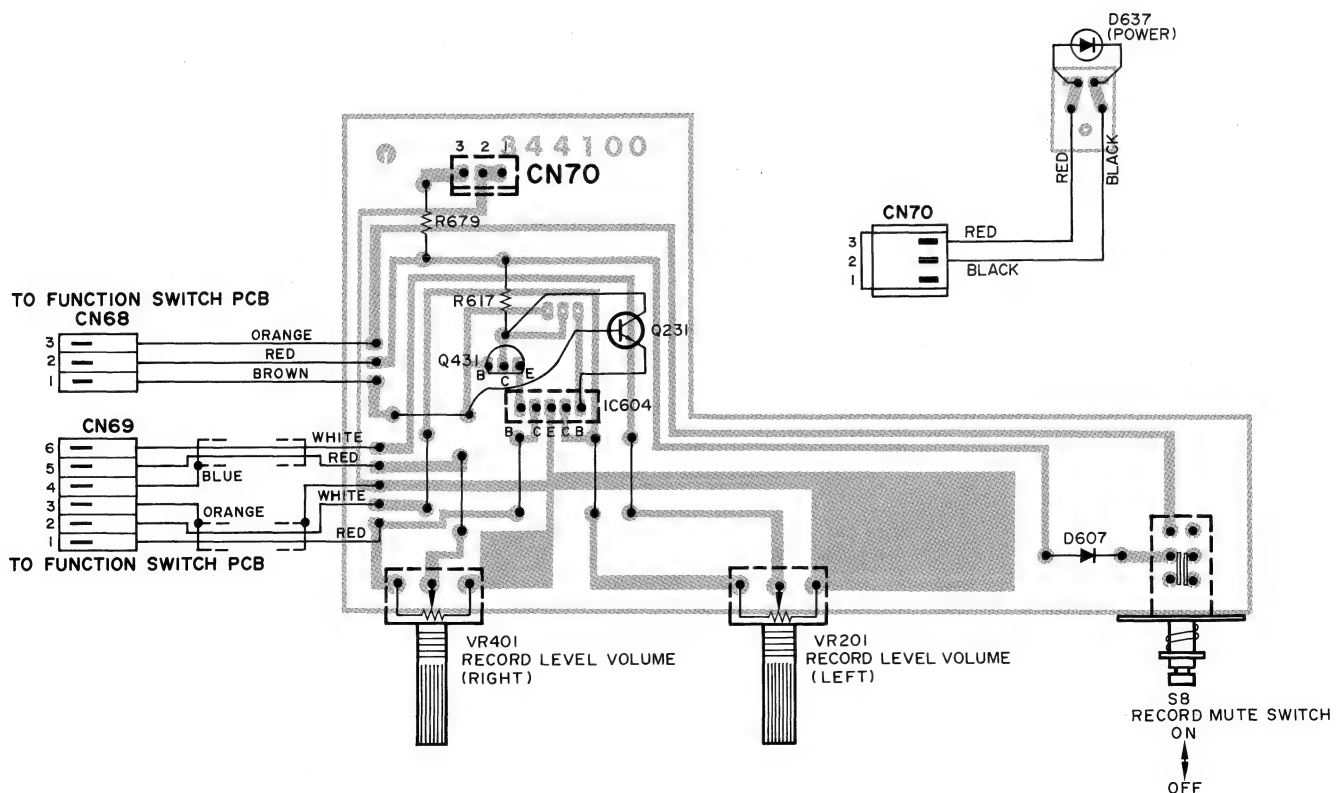


RECORD VOLUME P.C.BOARD

(Top View)

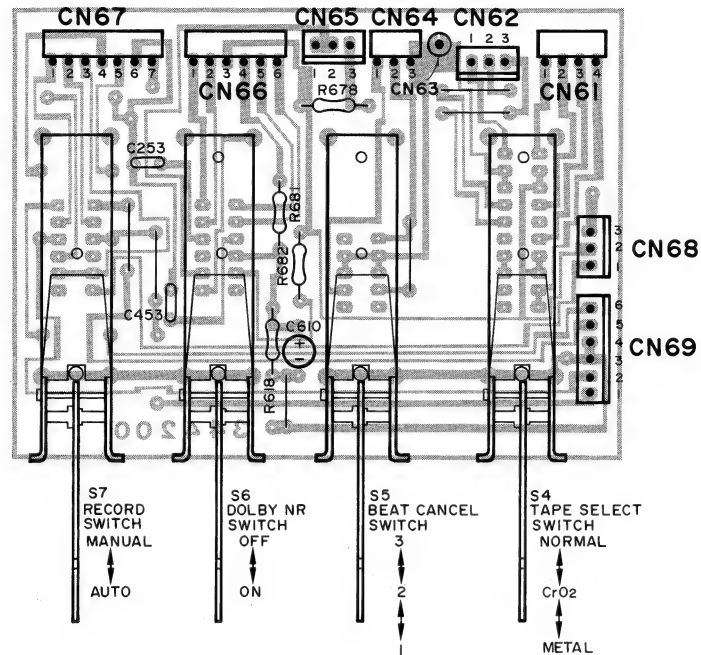


(Bottom View)

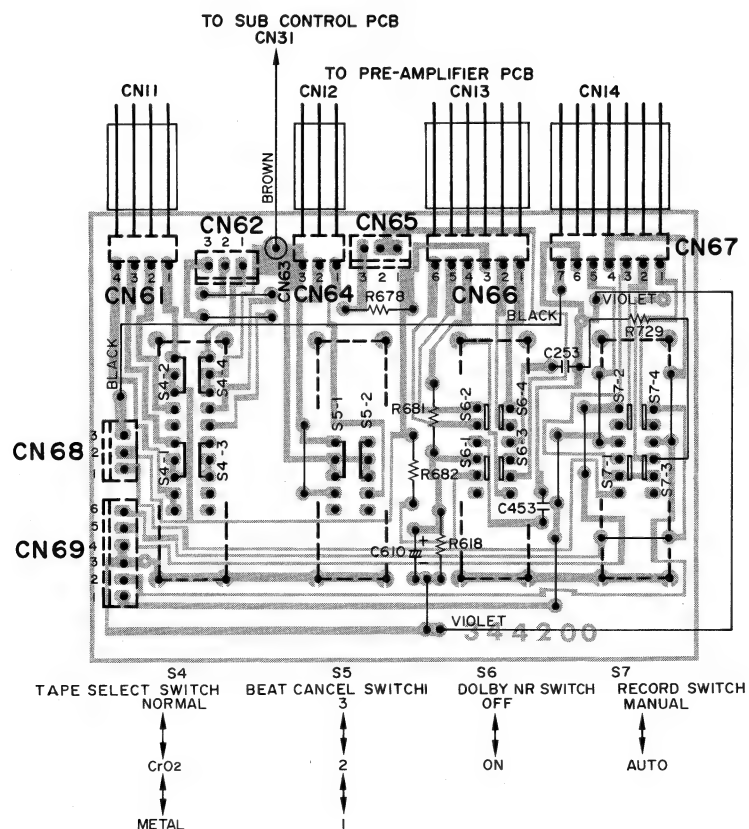


FUNCTION SWITCH P.C.BOARD

(Top View)

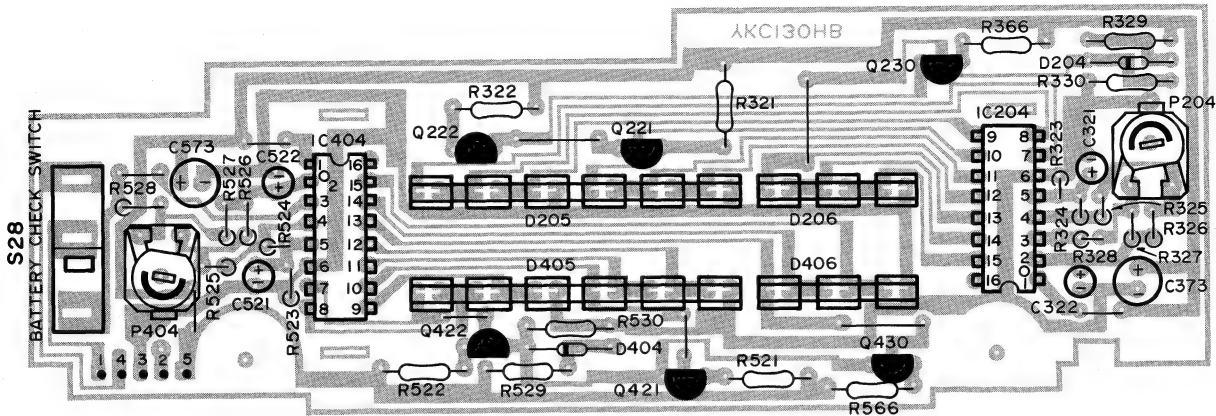


(Bottom View)

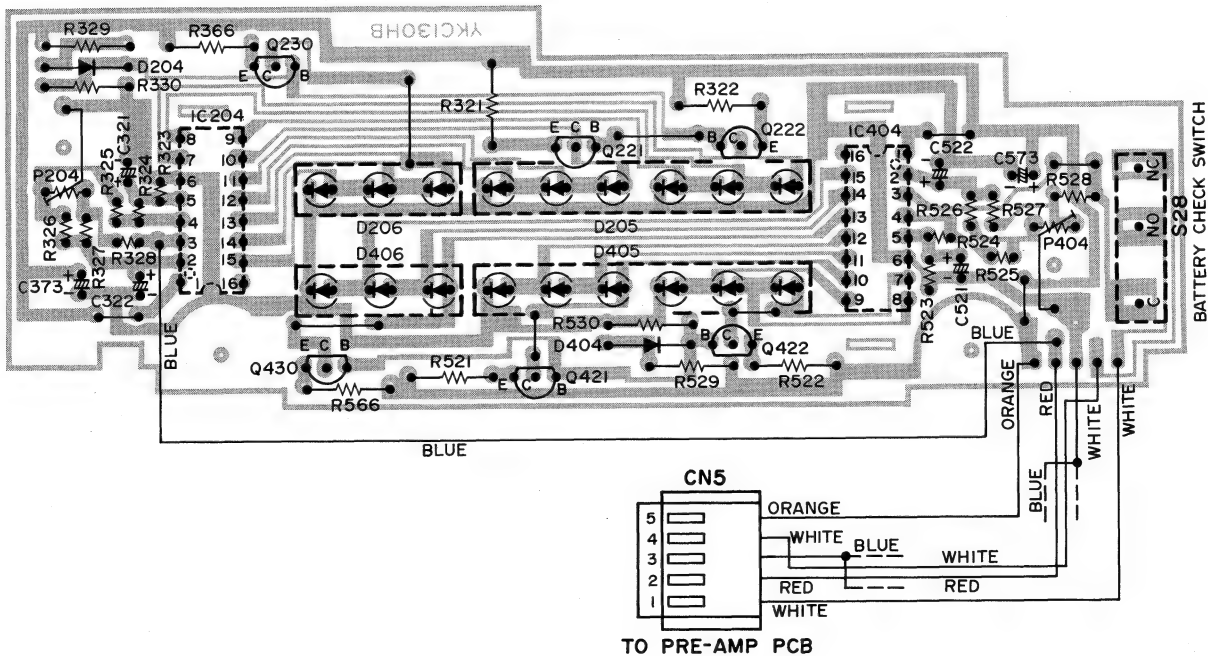


LED METER P.C.BOARD

(Top View)

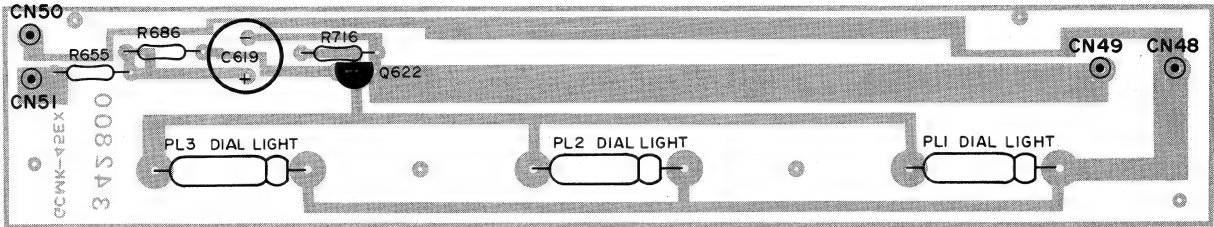


(Bottom View)

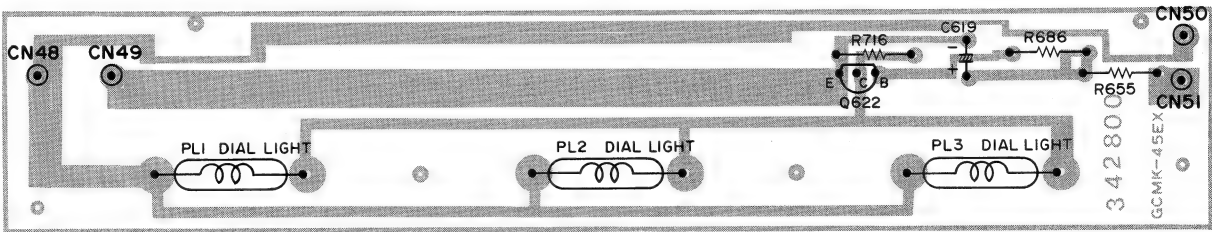


LAMP P.C.BOARD

(Top View)

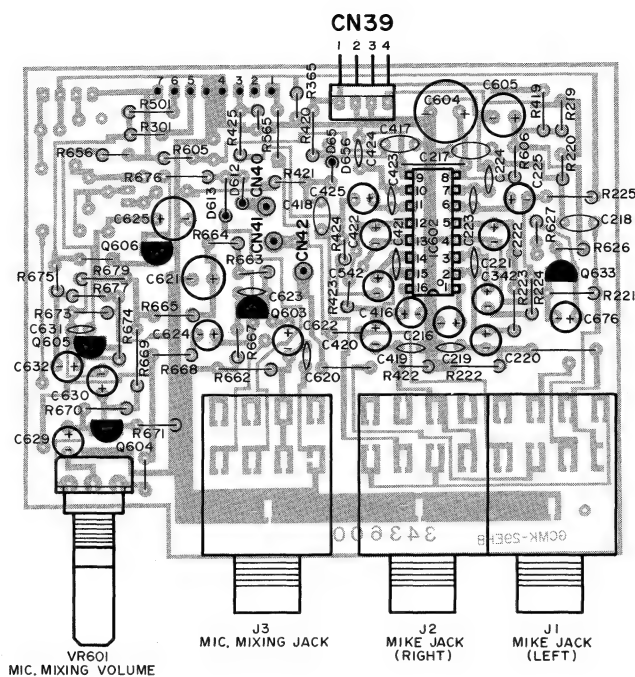


(Bottom View)

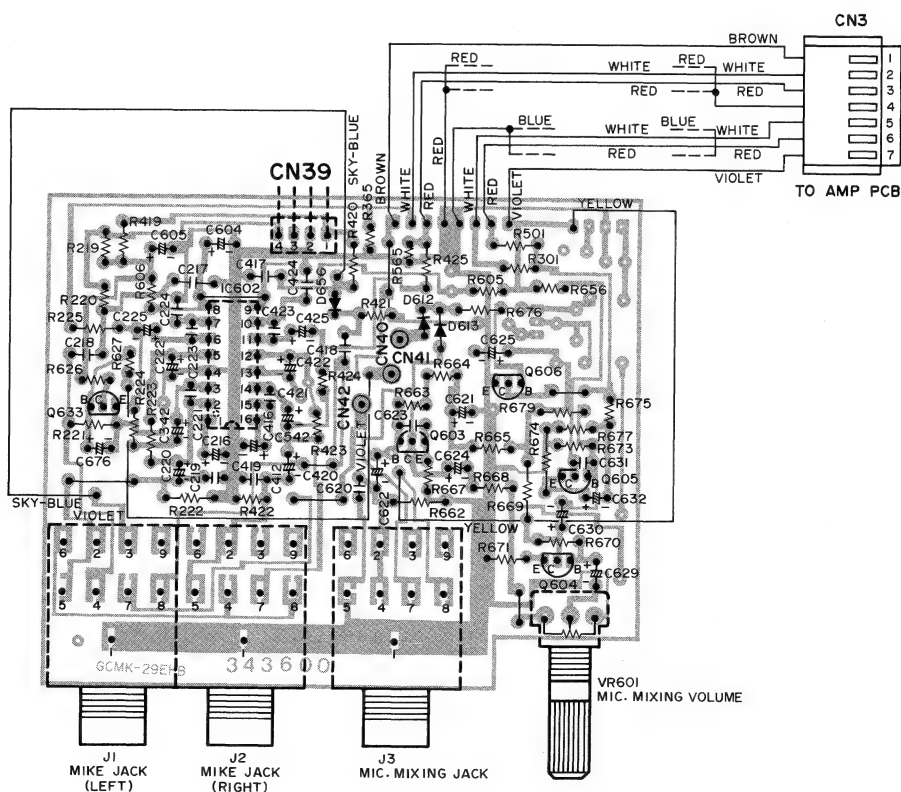


MICROPHONE AMPLIFIER P.C.BOARD

(Top View)

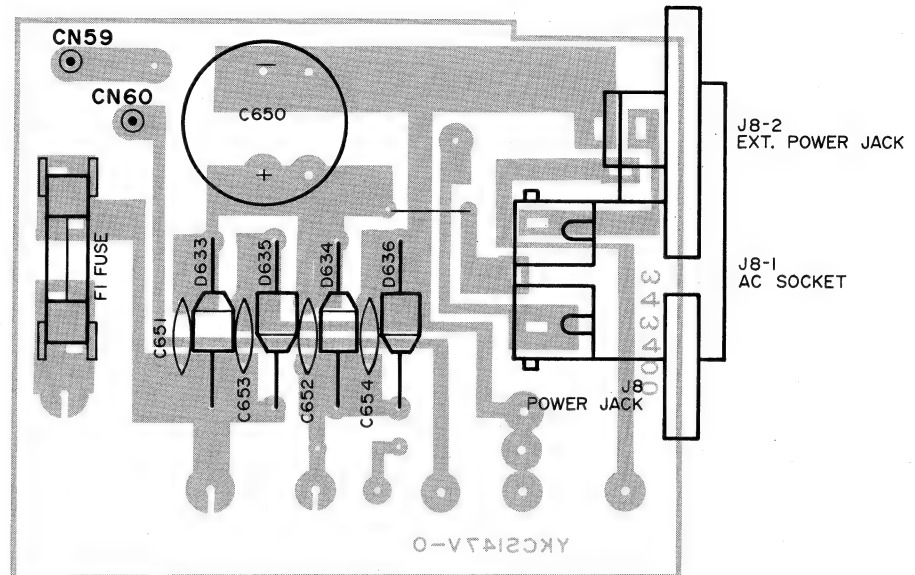


(Bottom View)

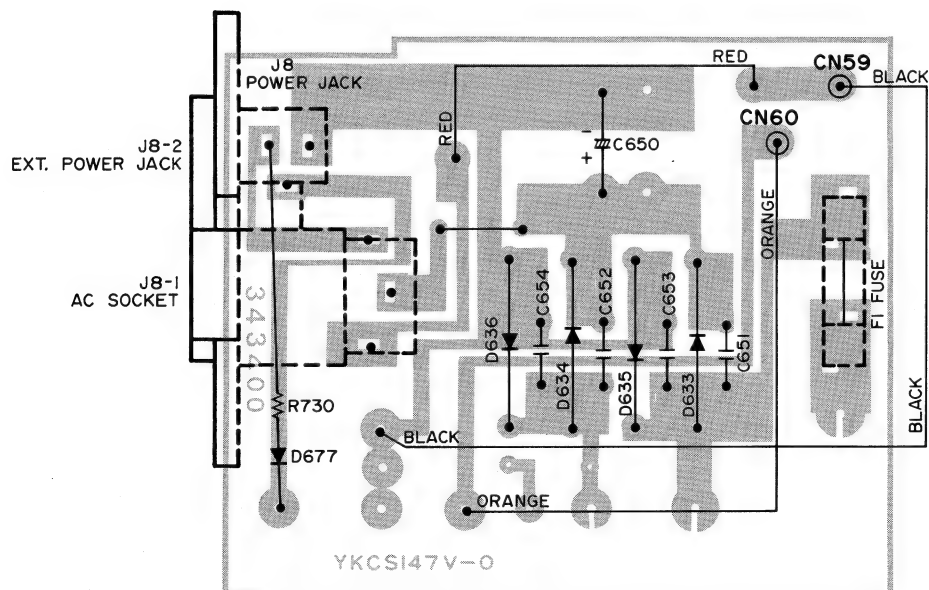


POWER SUPPLY P.C.BOARD

(Top View)

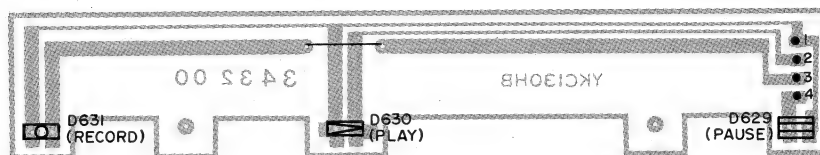


(Bottom View)

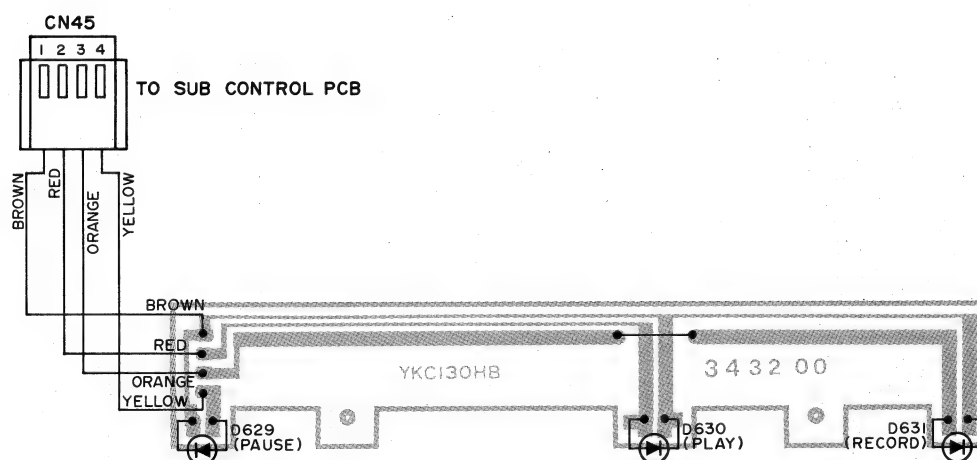


OPERATION INDICATOR P.C.BOARD

(Top View)



(Bottom View)

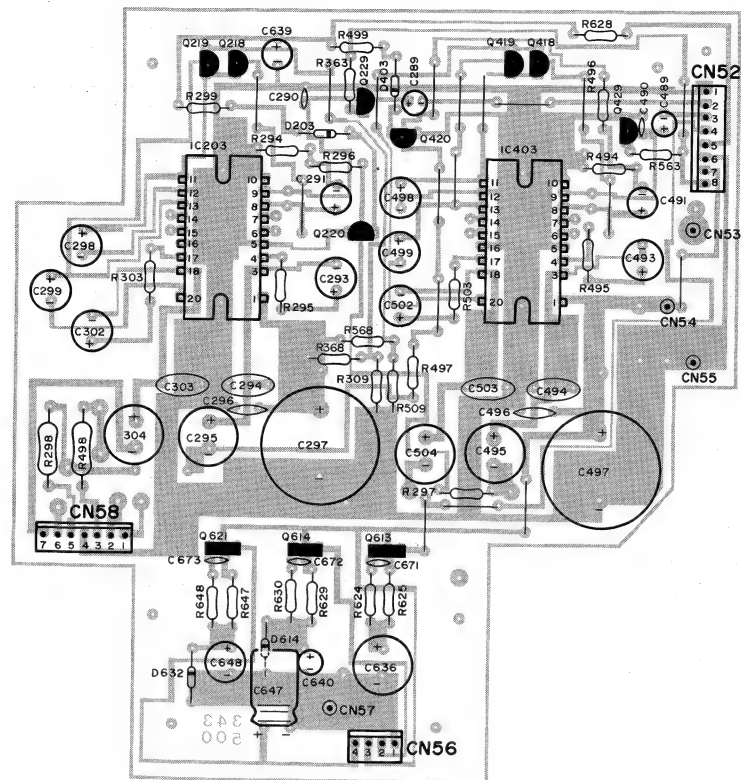


(Top View)

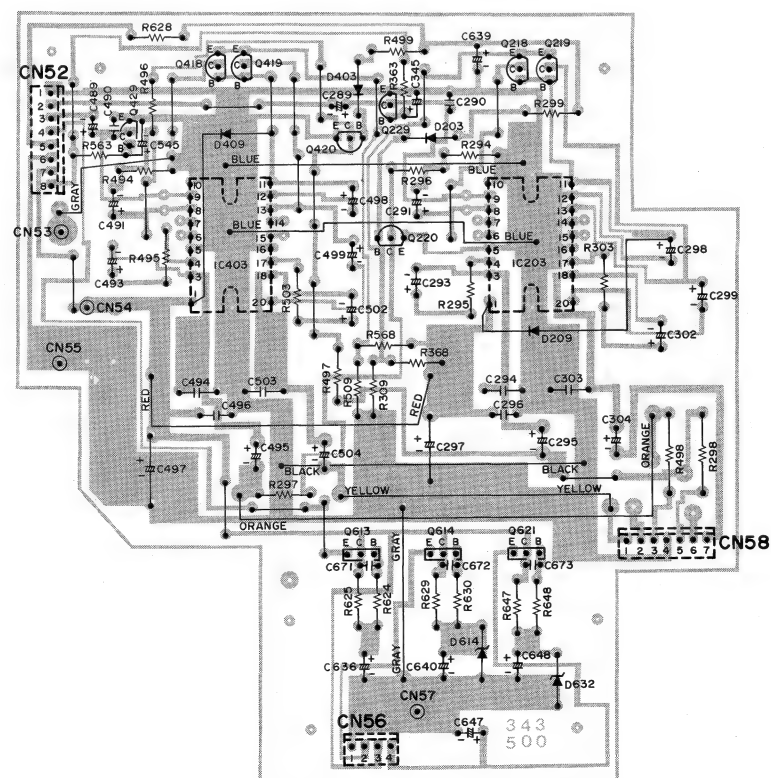


POWER AMP P.C.BOARD

(Top View)

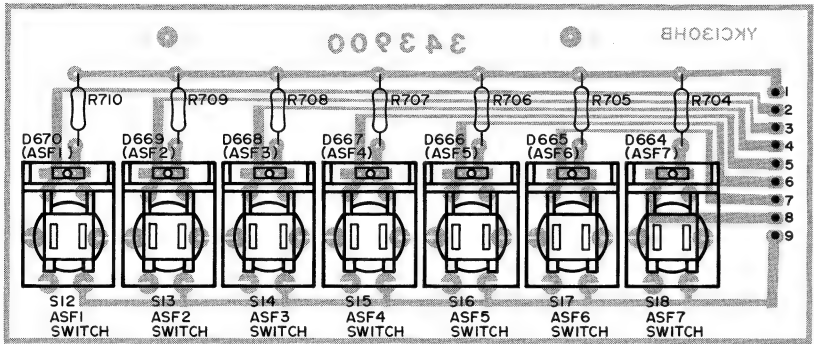


(Bottom View)

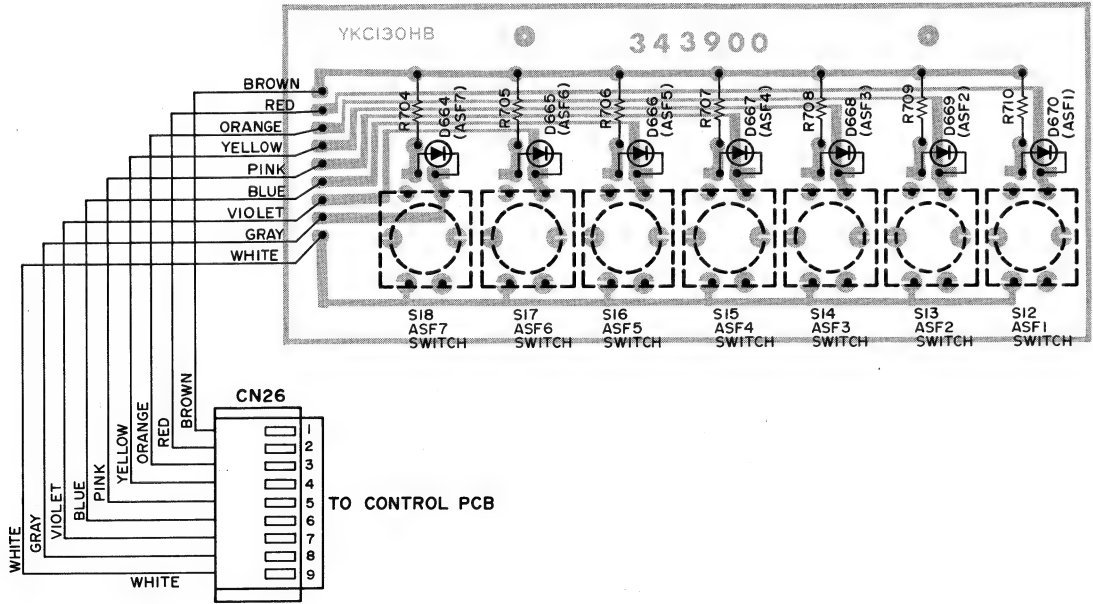


ASF SWITCH P.C.BOARD

(Top View)

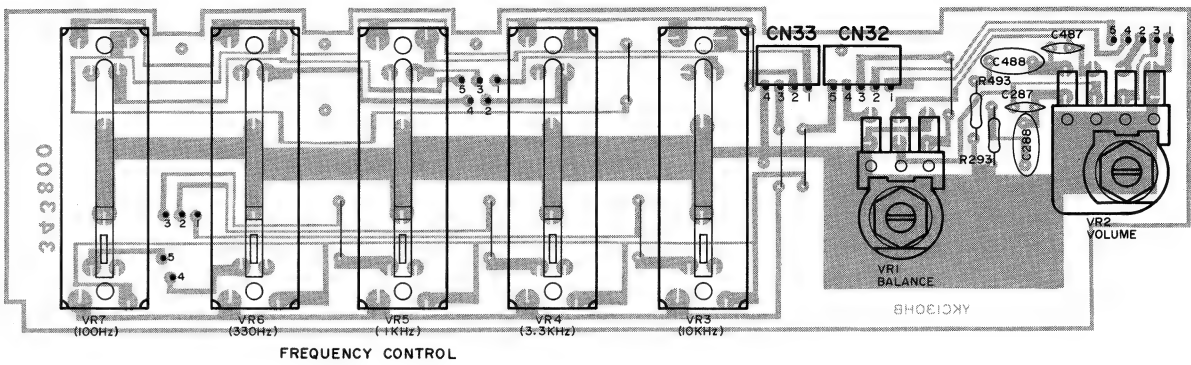


(Bottom View)

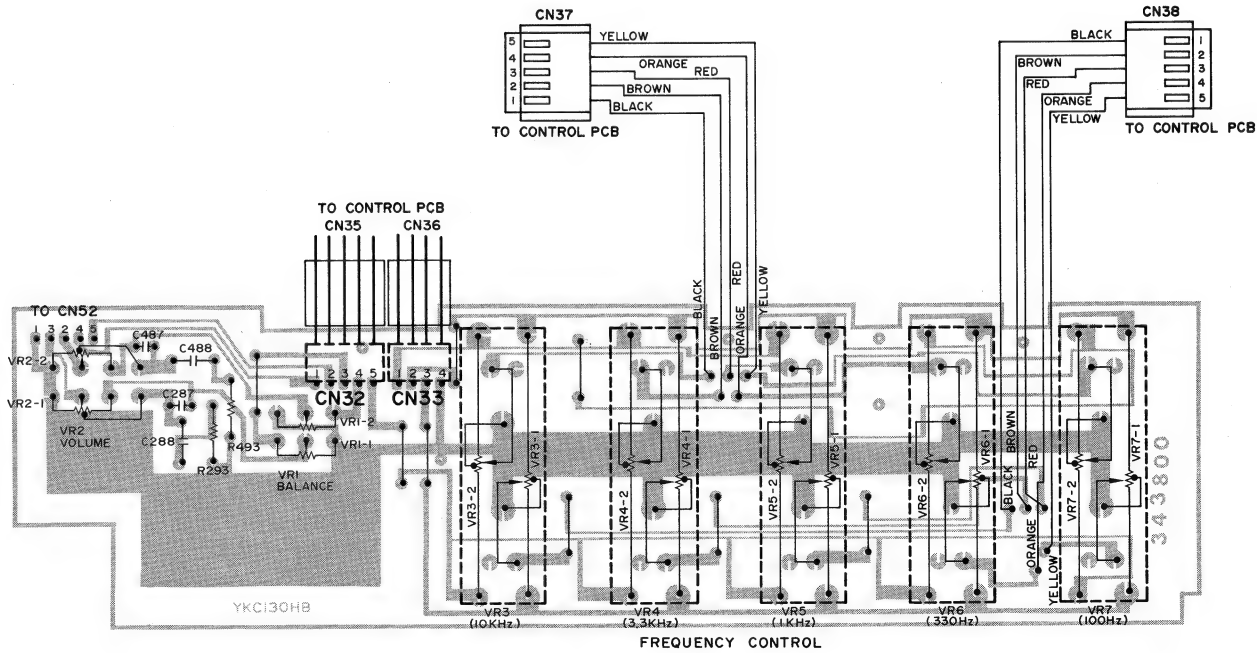


FREQUENCY EQ CONTROL P.C.BOARD

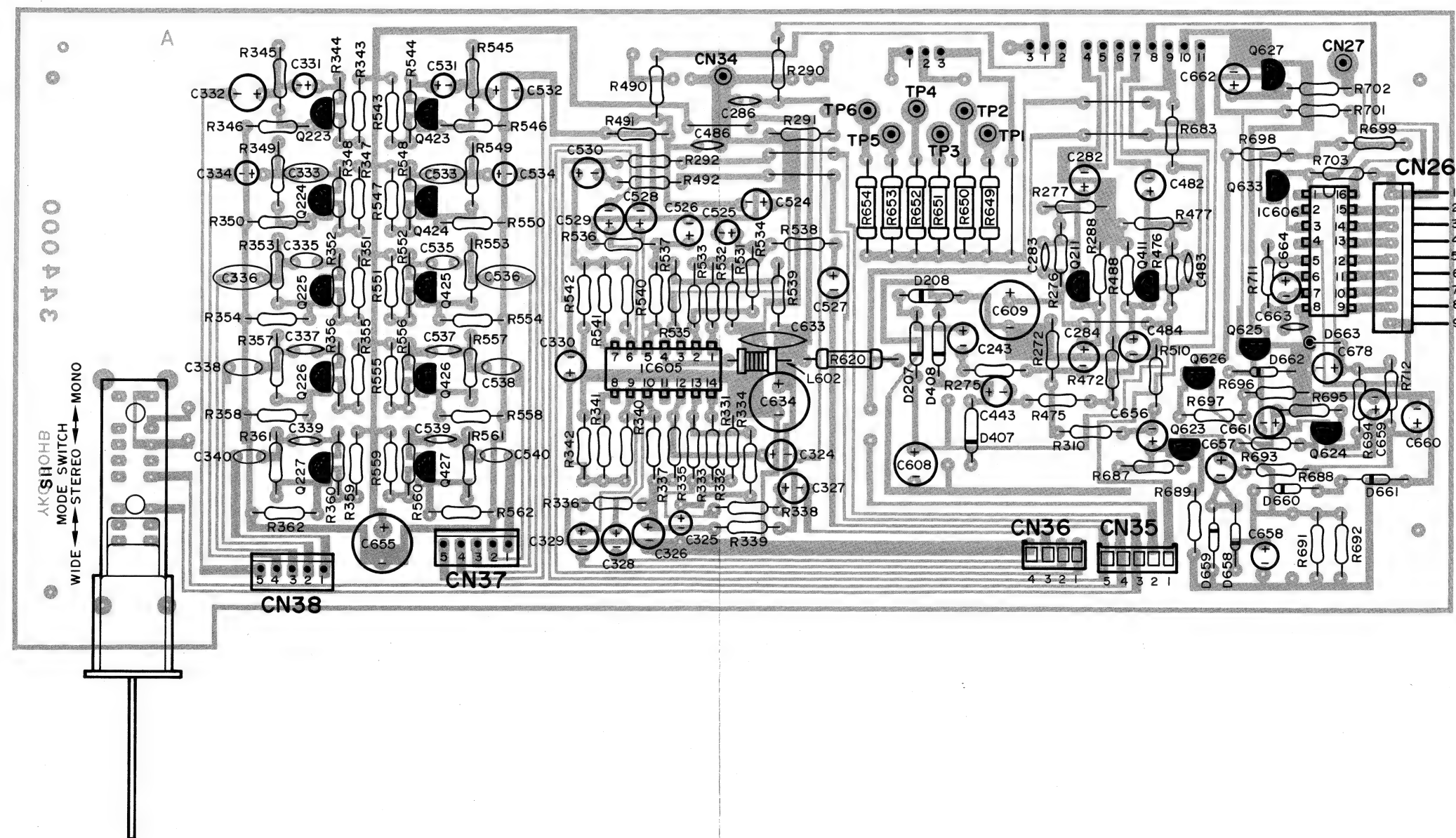
(Top View)



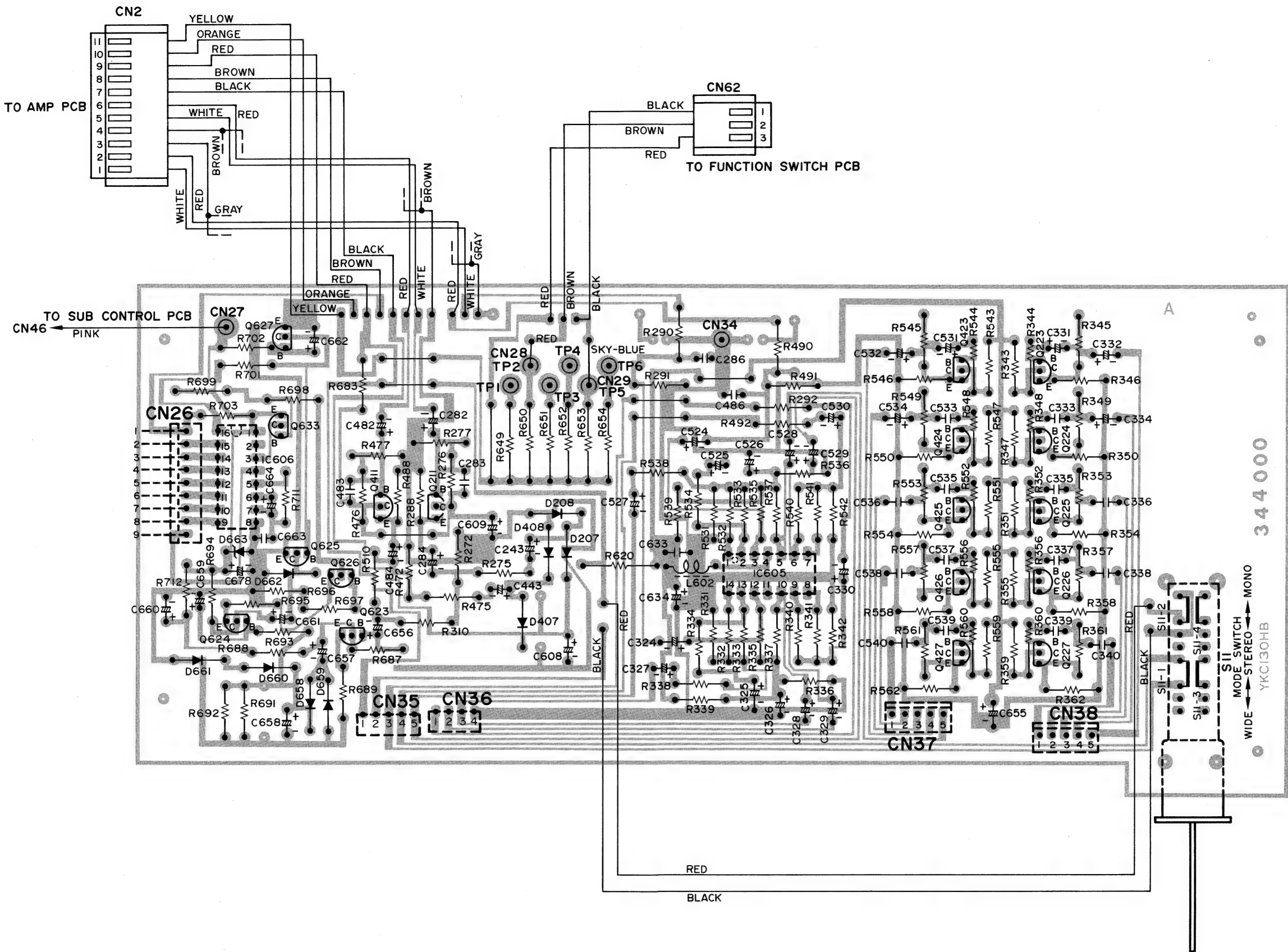
(Bottom View)



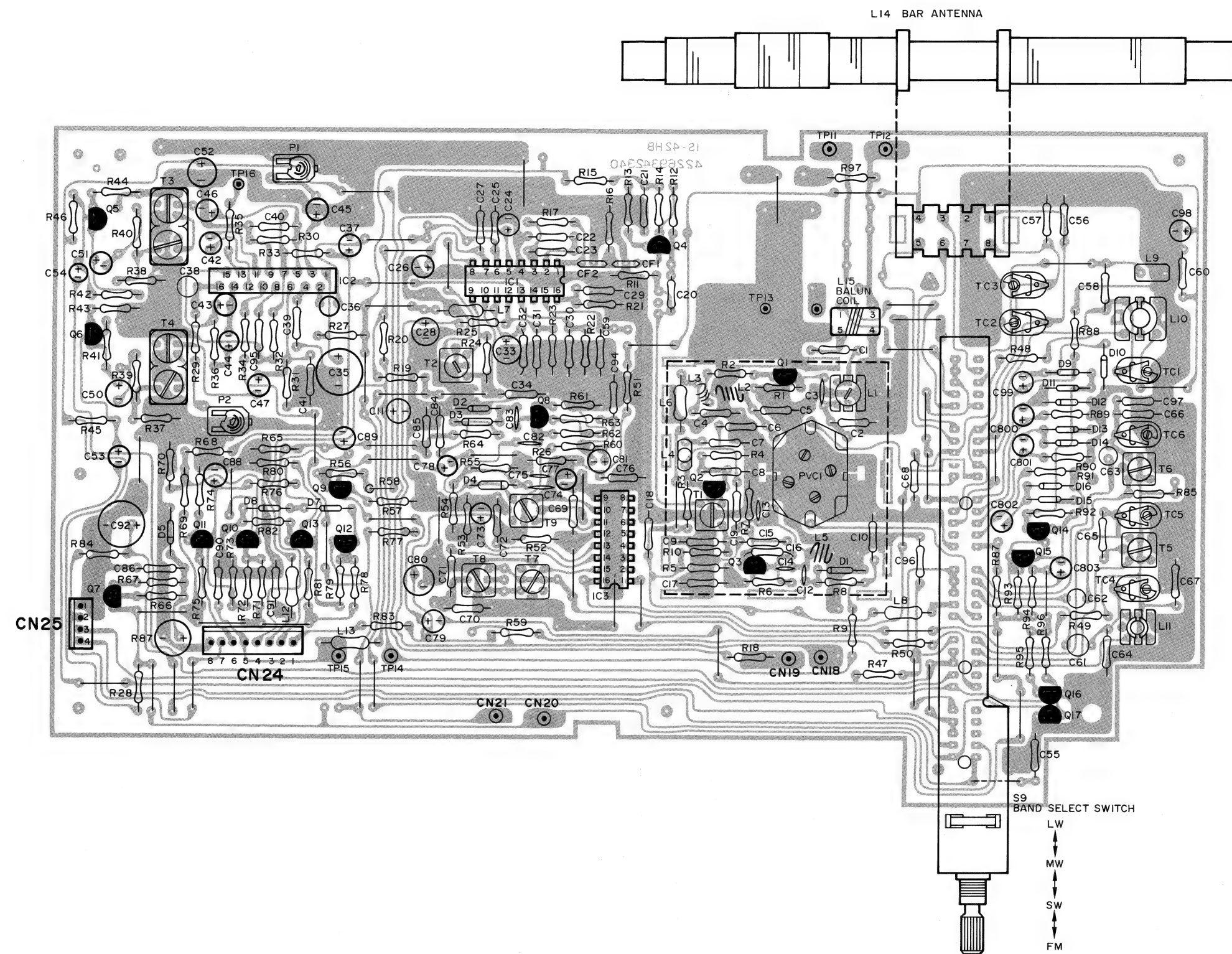
CONTROL P.C.BOARD(Top View)



CONTROL P.C.BOARD(Bottom View)



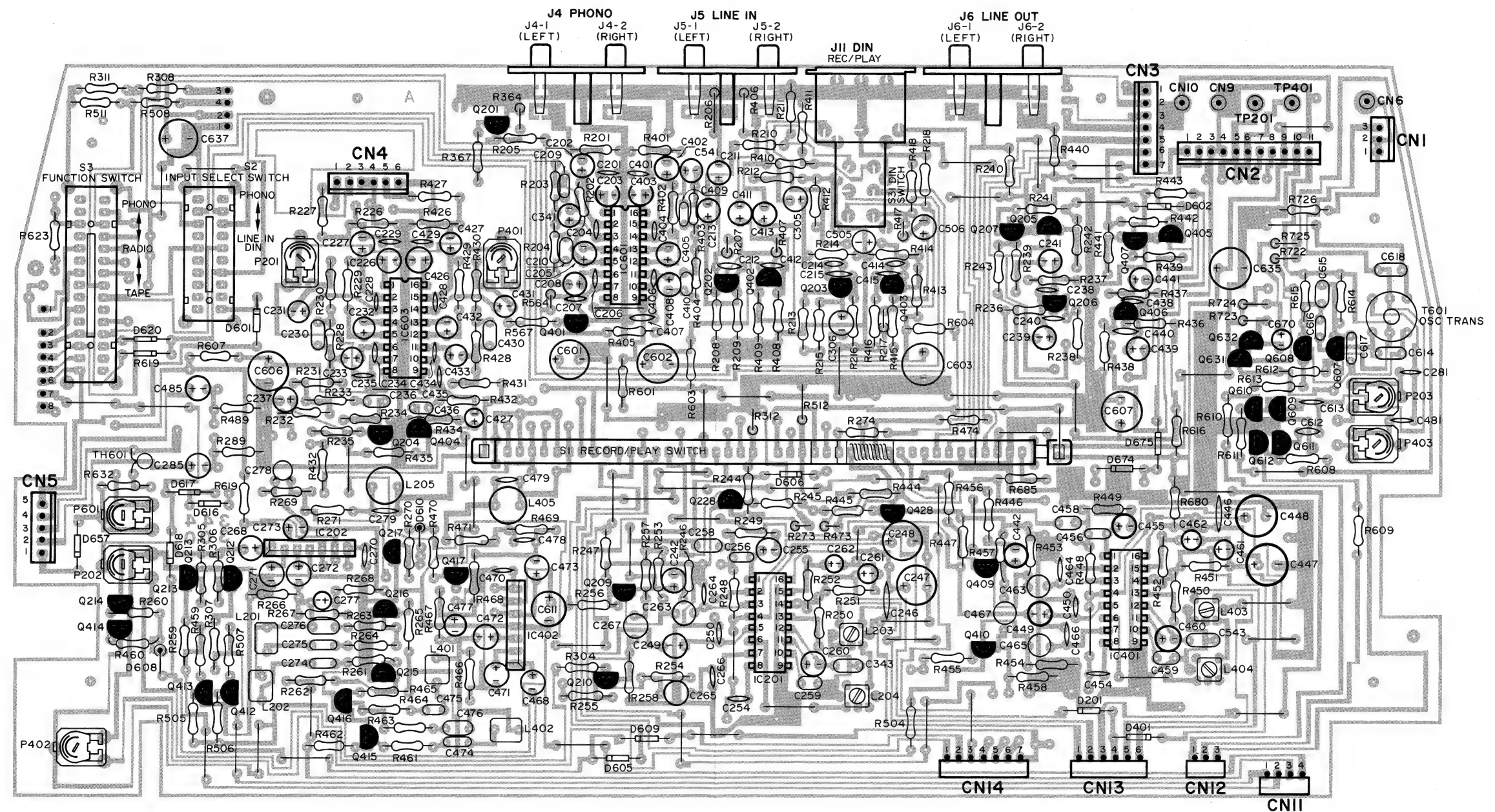
RADIO TUNER P.C.BOARD(Top View)



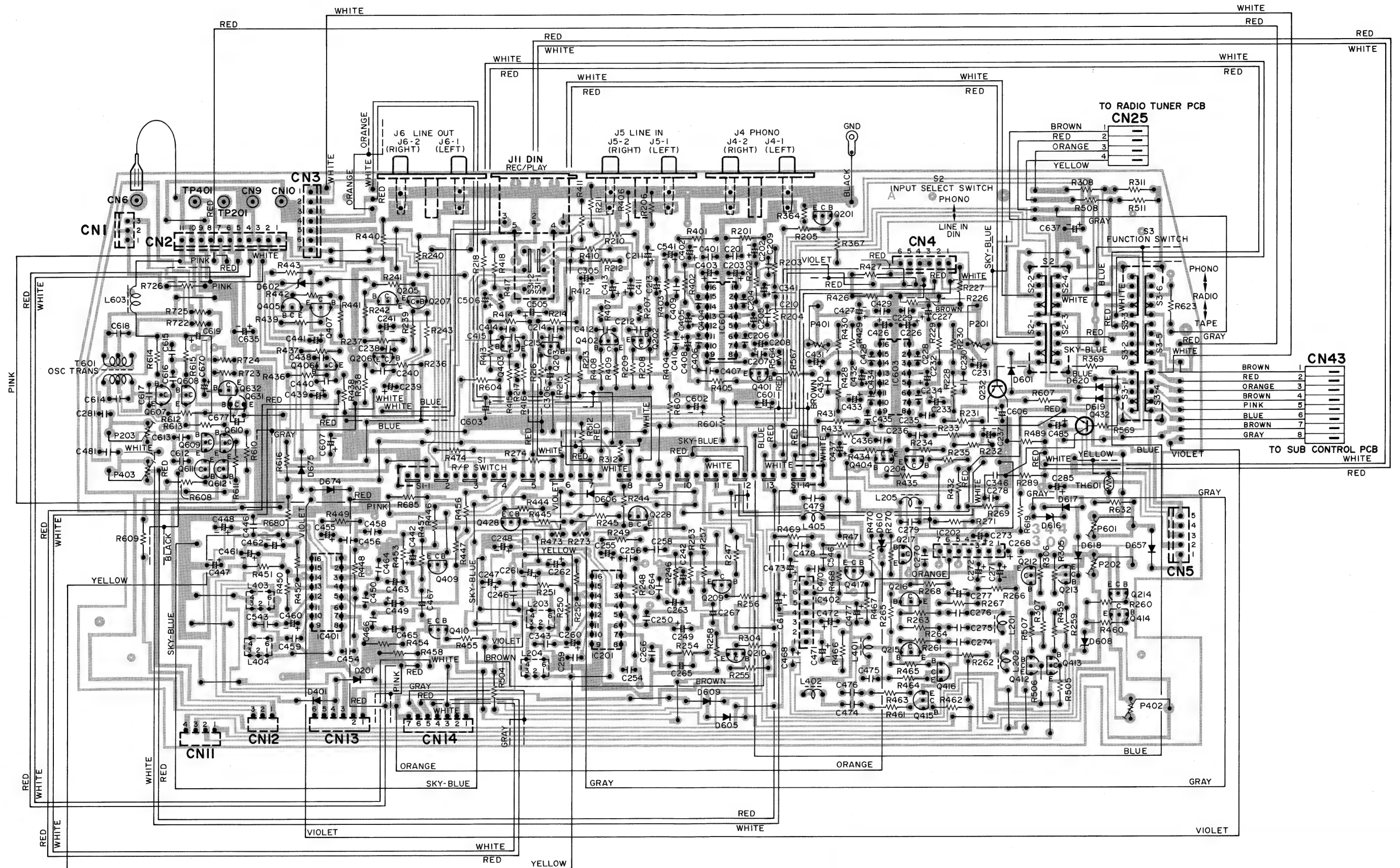
The diagram shows a complex circuit board layout for a radio receiver. Key components and connections include:

- Antennas:** A 'BAR ANTENNA' is connected to the top of the board. A 'ROD ANTENNA' is connected to the right side via a 'TO ROD ANTENNA' line.
- Switches:** A 'LOCAL/DX SWITCH' is located at the top right. A 'BAND SELECT SWITCH' is at the bottom left, with positions for LW, MW, SW, and FM. An 'SIO MUTE SWITCH' is at the bottom center, with 'ON' and 'OFF' positions.
- Connectors:** A 'CN25 TO PRE AMP PCB' connector is on the right. A 'CN24' connector is at the bottom right. A 'CN18' and 'CN19' are on the bottom left.
- Components:** The board is populated with numerous capacitors (C1-C100), resistors (R1-R100), transistors (Q1-Q10), diodes (D1-D10), and integrated circuits (IC1-IC4). Test points (TPI1-TPI6) are marked throughout the layout.
- Wiring:** Various colored wires (LIGHT-BROWN, BLACK, RED, BLUE, WHITE) are shown connecting the board to external components and antennas.

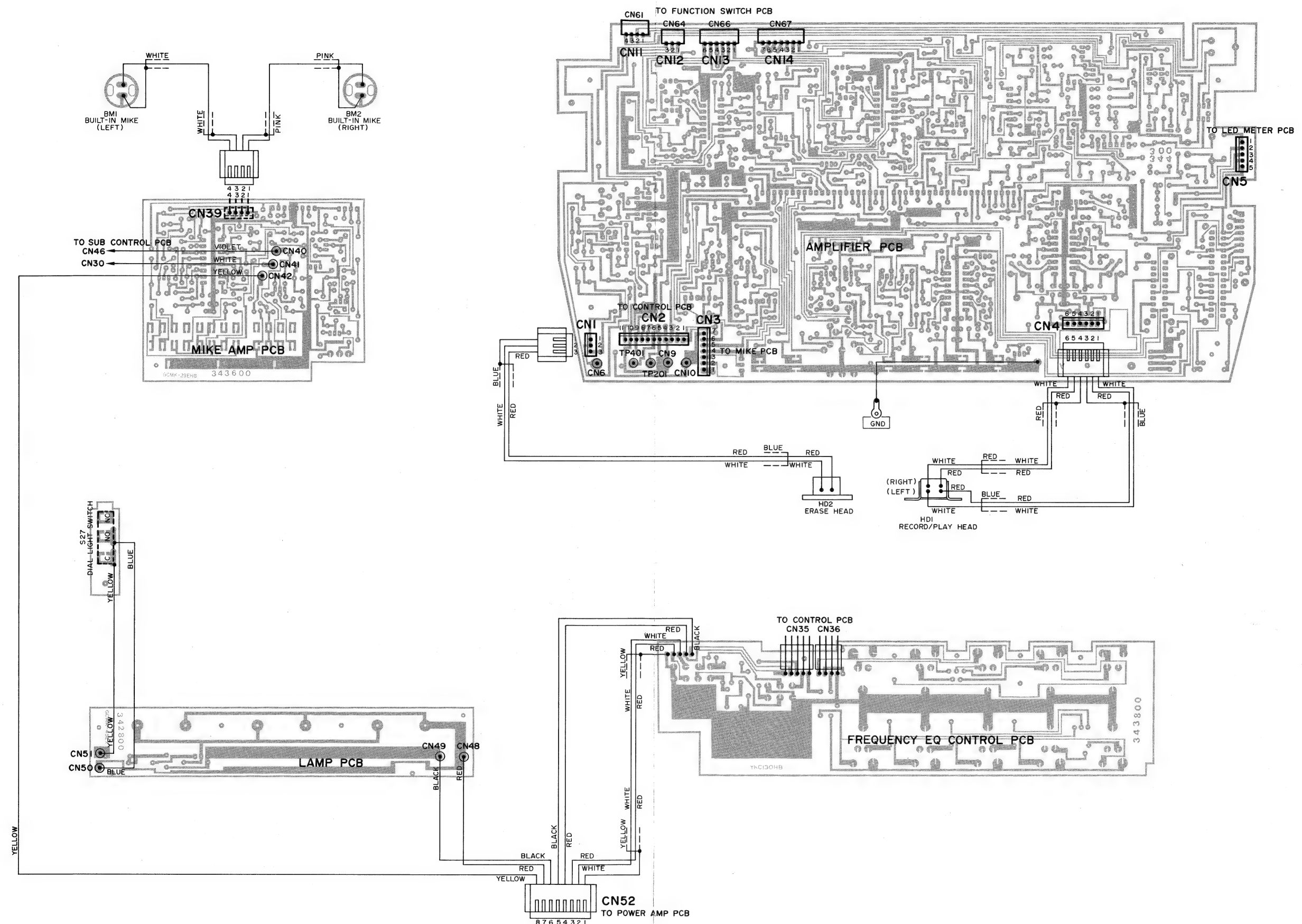
PRE AMPLIFIER P.C.BOARD(Top View)



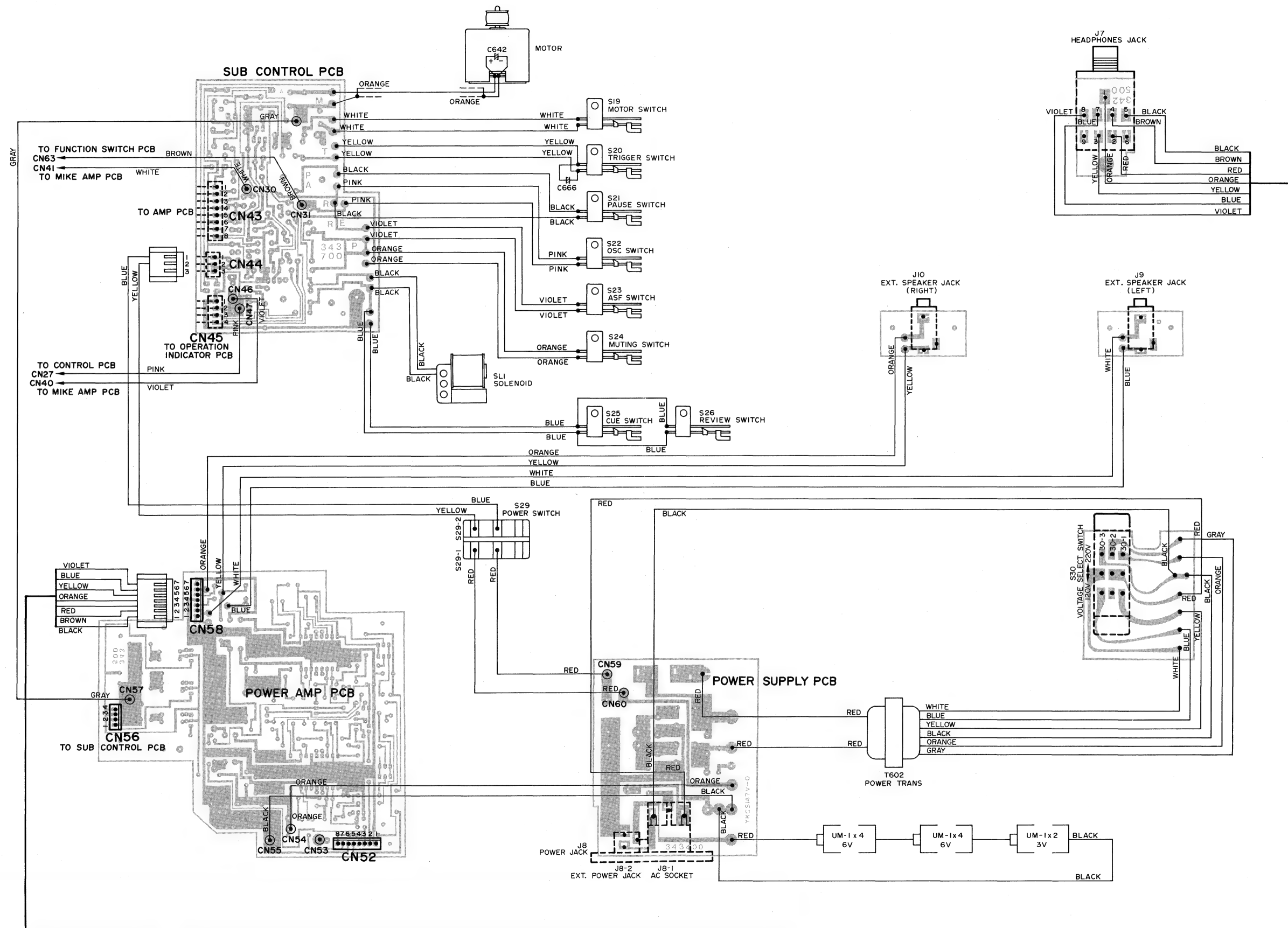
PRE AMPLIFIER P.C.BOARD(Bottom View)



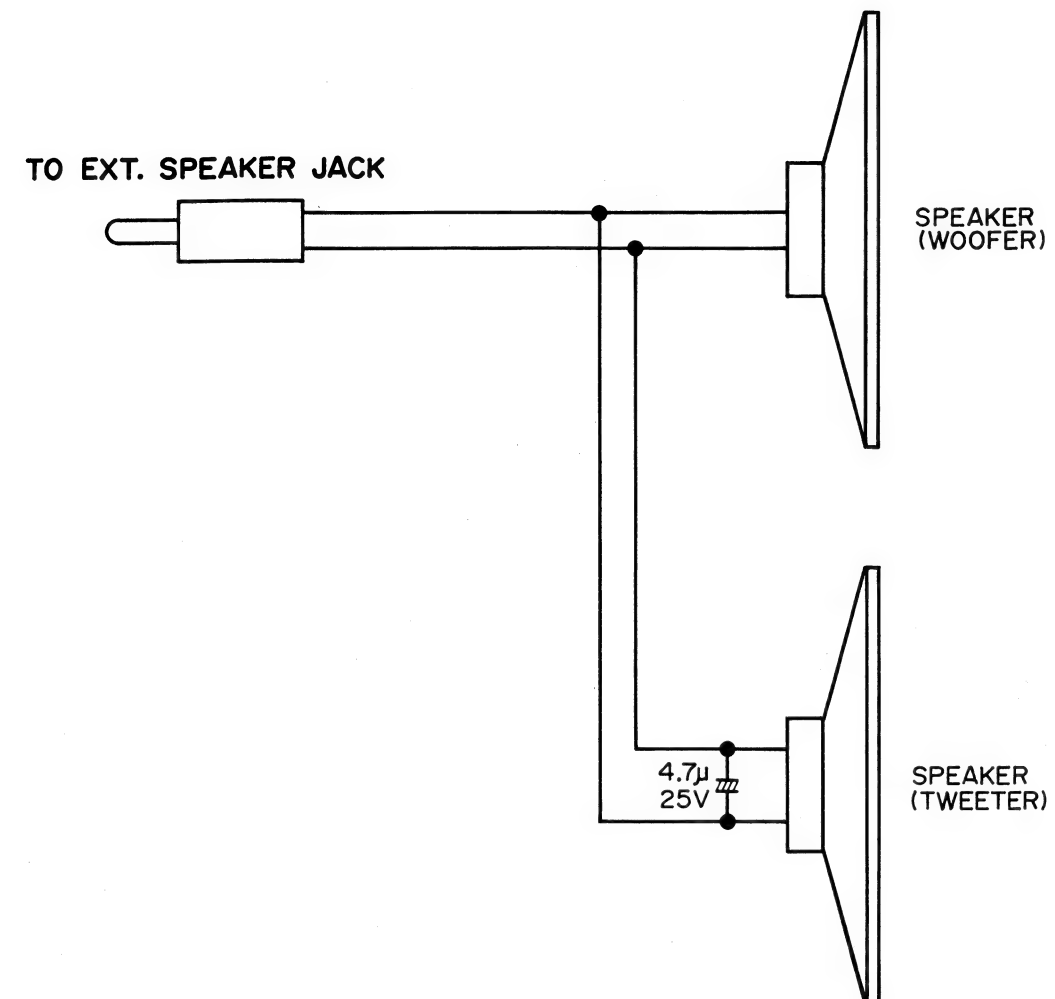
WIRING DIAGRAM (Amplifier)



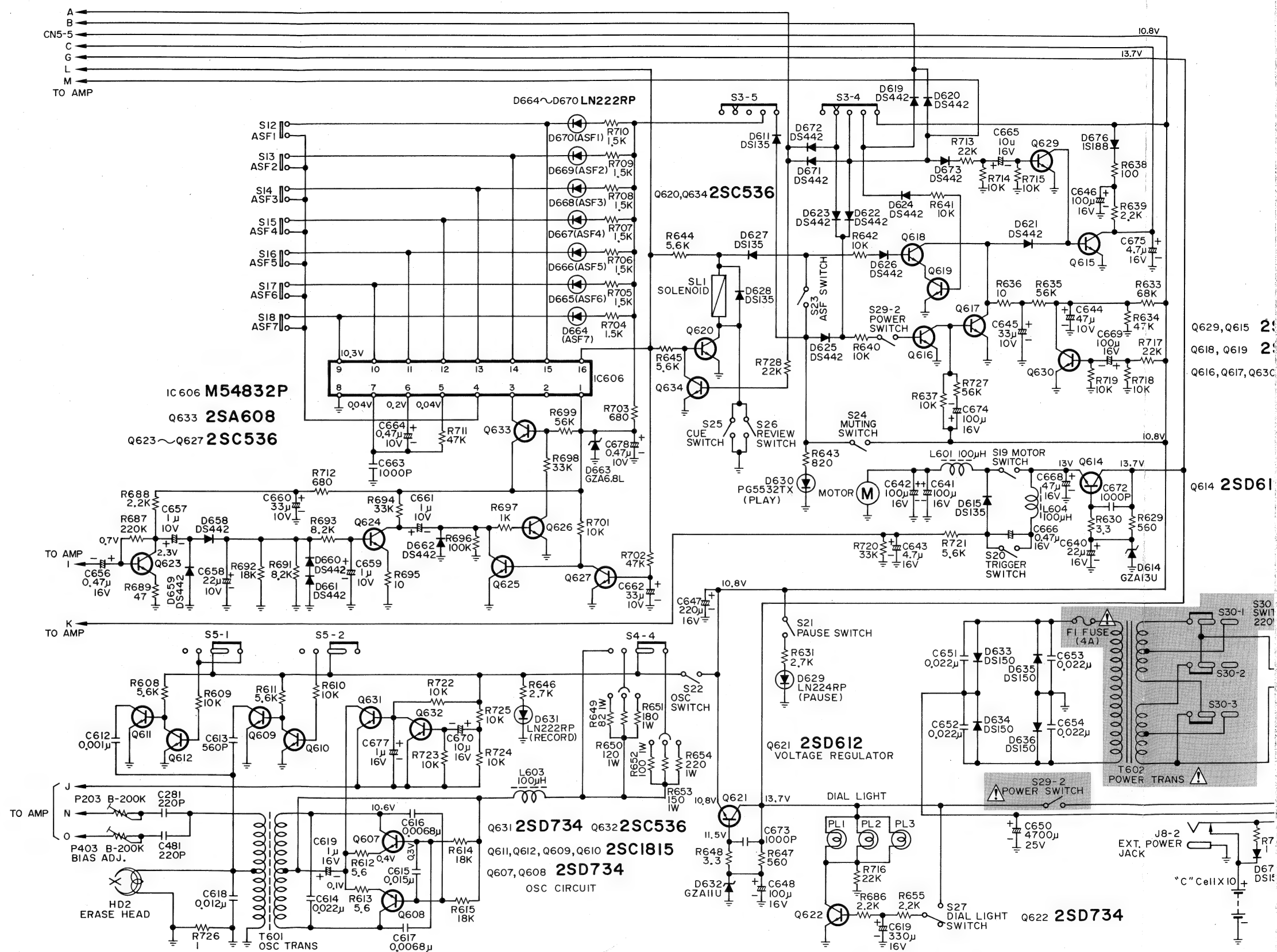
WIRING DIAGRAM (Control)



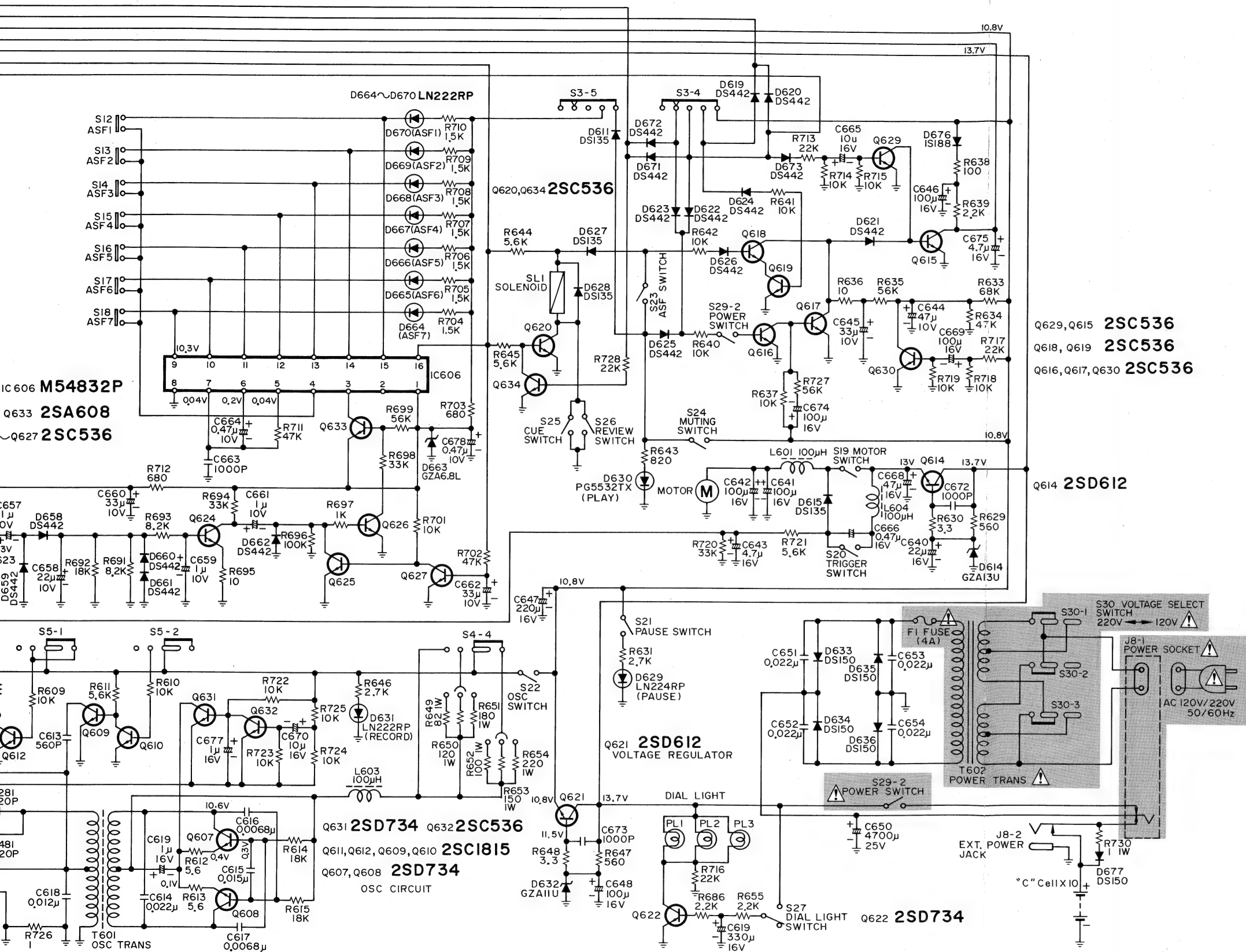
SPEAKER BOX SCHEMATIC DIAGRAM



CONTROL SCHEMATIC DIAGRAM



CONTROL SCHEMATIC DIAGRAM

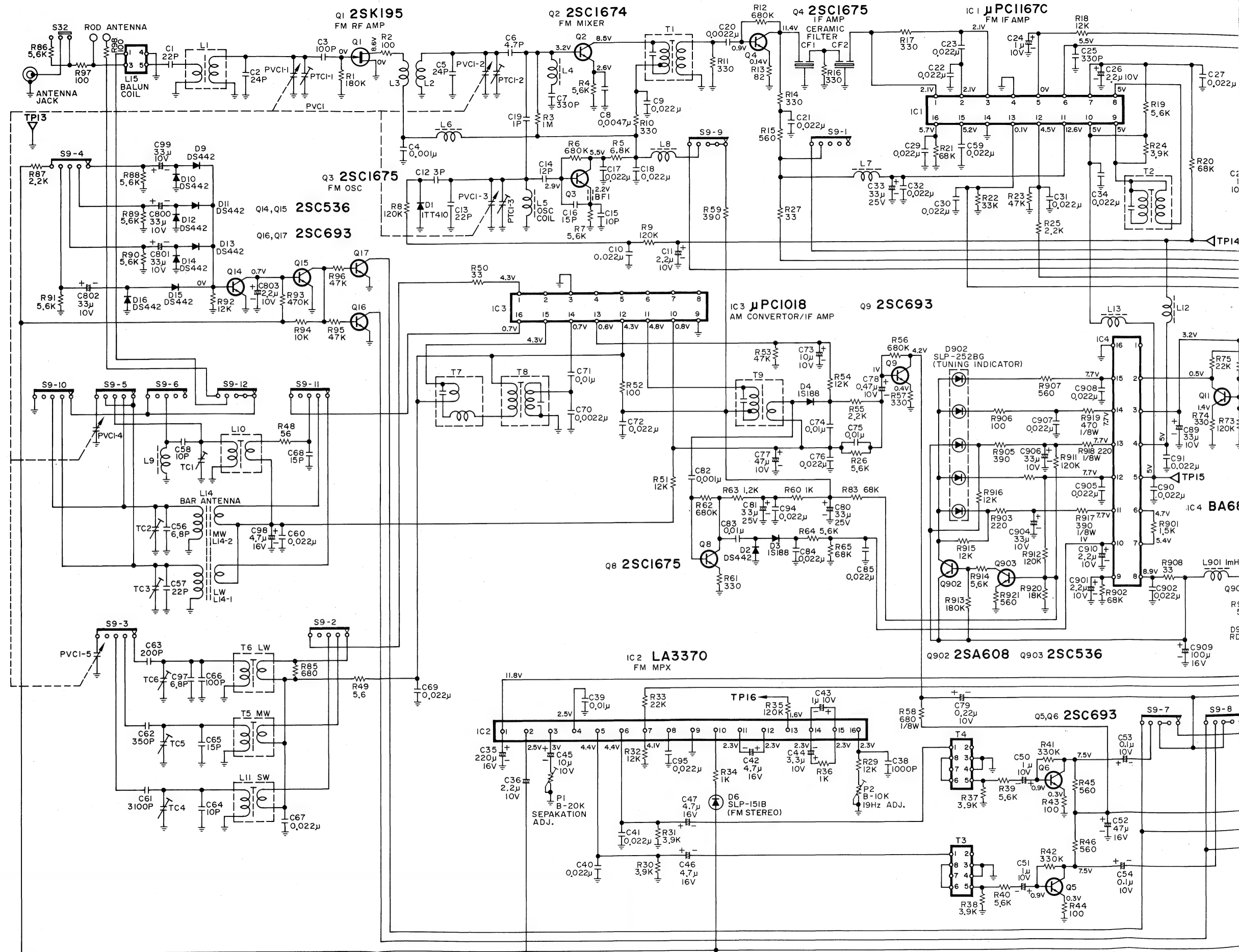


No.	Name	Position
S1	RECORD/PLAY Switch	PLAY
S2	INPUT SELECT Switch	LINE IN
S3	FUNCTION Switch	TAPE
S4	TAPE SELECT Switch	NORMAL
S5	BEAT CANCEL Switch	3
S6	DOLBY NR Switch	OFF
S7	RECORD Switch	MANUAL
S8	RECORD MUTE Switch	OFF
S9	BAND SELECT Switch	MW
S10	FM MUTE Switch	OFF
S11	MODE Switch	MONO
S12	ASF 1 Switch	OFF
S13	ASF 2 Switch	OFF
S14	ASF 3 Switch	OFF
S15	ASF 4 Switch	OFF
S16	ASF 5 Switch	OFF
S17	ASF 6 Switch	OFF
S18	ASF 7 Switch	OFF
S19	MOTOR Switch	OFF
S20	TRIGGER Switch	OFF
S21	PAUSE Switch	OFF
S22	OSC Switch	OFF
S23	ASF Switch	OFF
S24	MUTING Switch	OFF
S25	CUE Switch	OFF
S26	REVIEW Switch	OFF
S27	DIAL LIGHT Switch	OFF
S28	BATTERY CHECK Switch	OFF
S29	POWER Switch	OFF
S30	VOLTAGE SELECT Switch	220 V
S31	DIN SWITCH	PLAY
S32	LOCAL/DX SWITCH	LOCAL

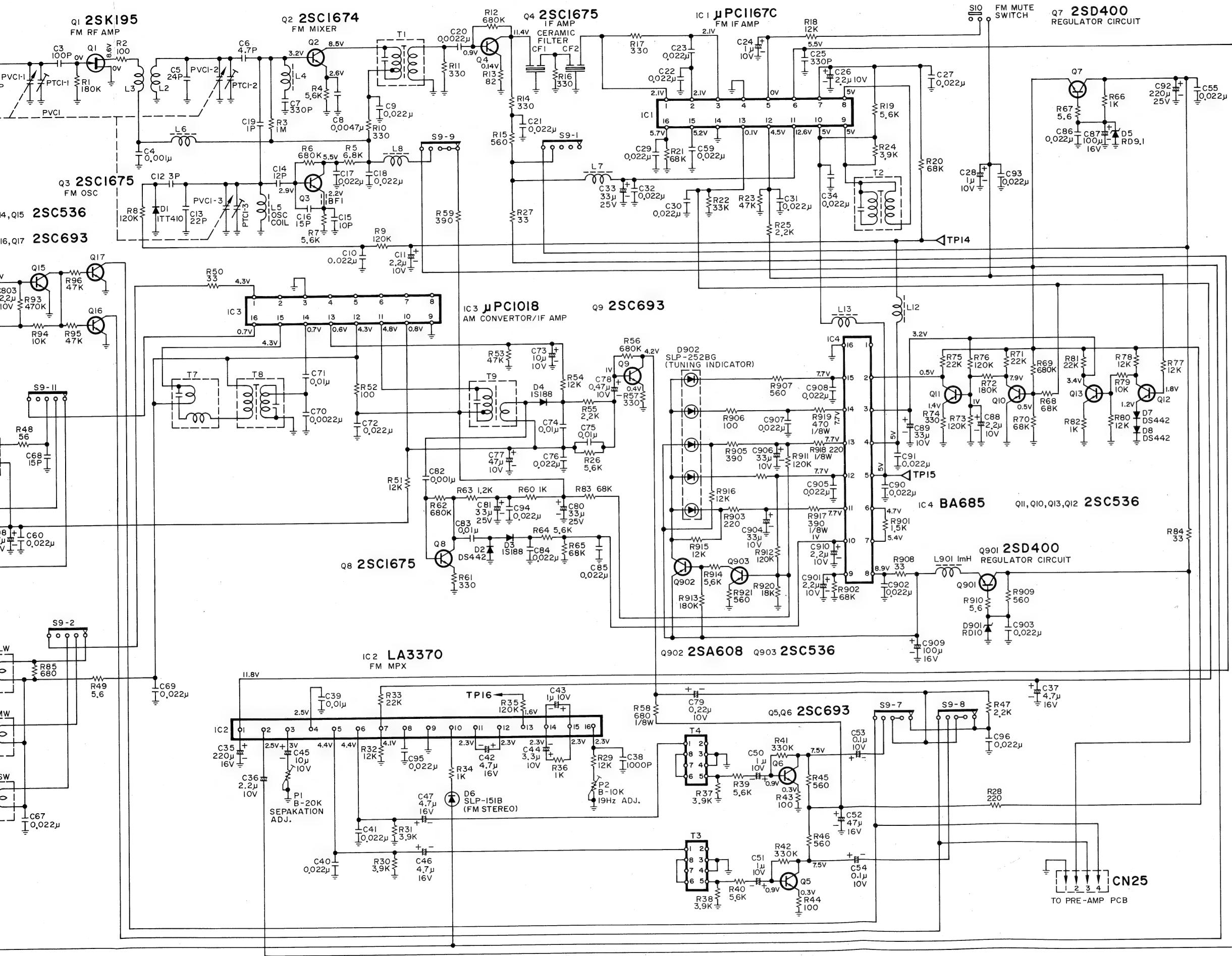
RADIO TUNER SCHEMATIC DIAGRAM



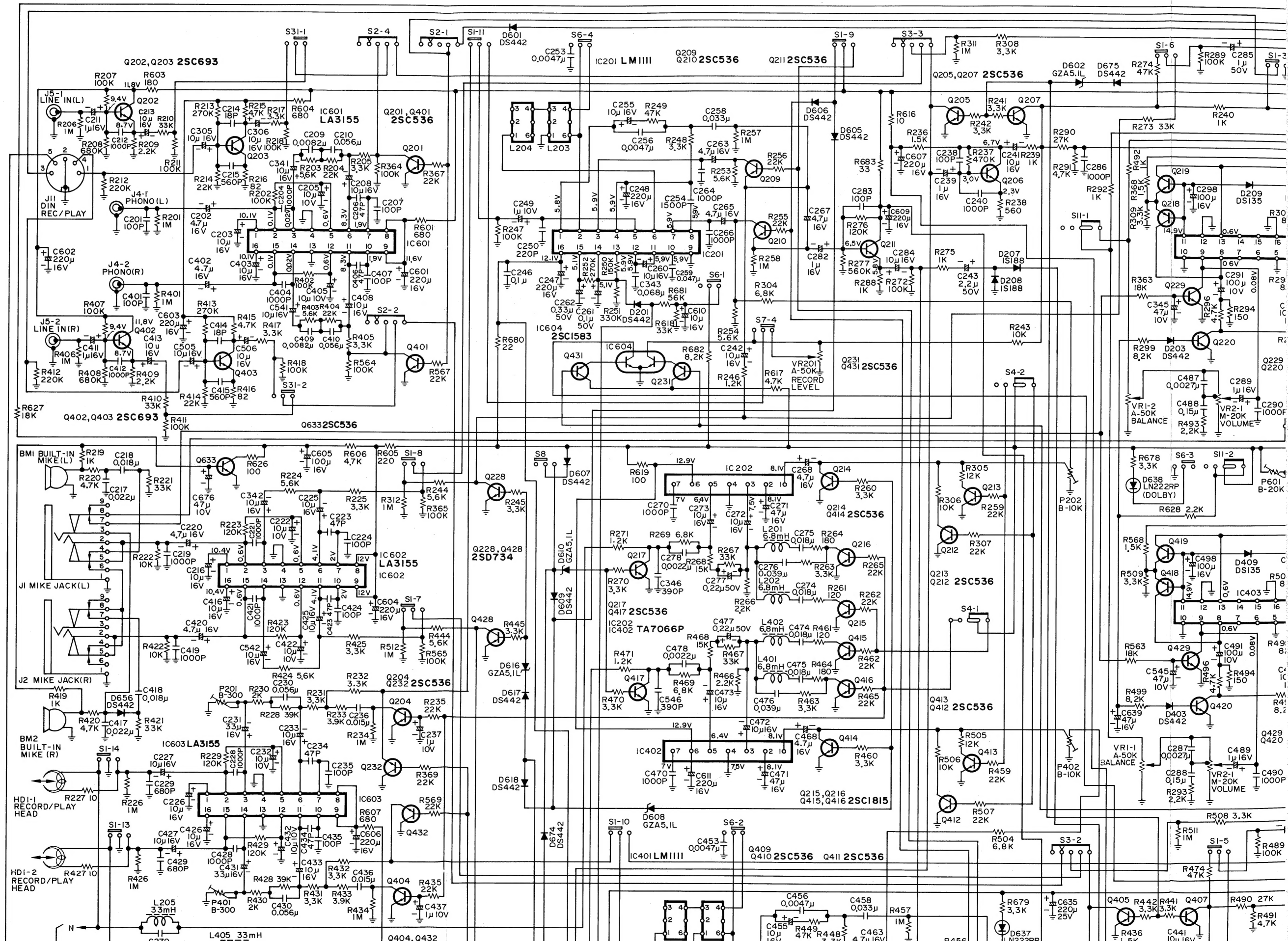
RADIO TUNER SCHEMATIC DIAGRAM



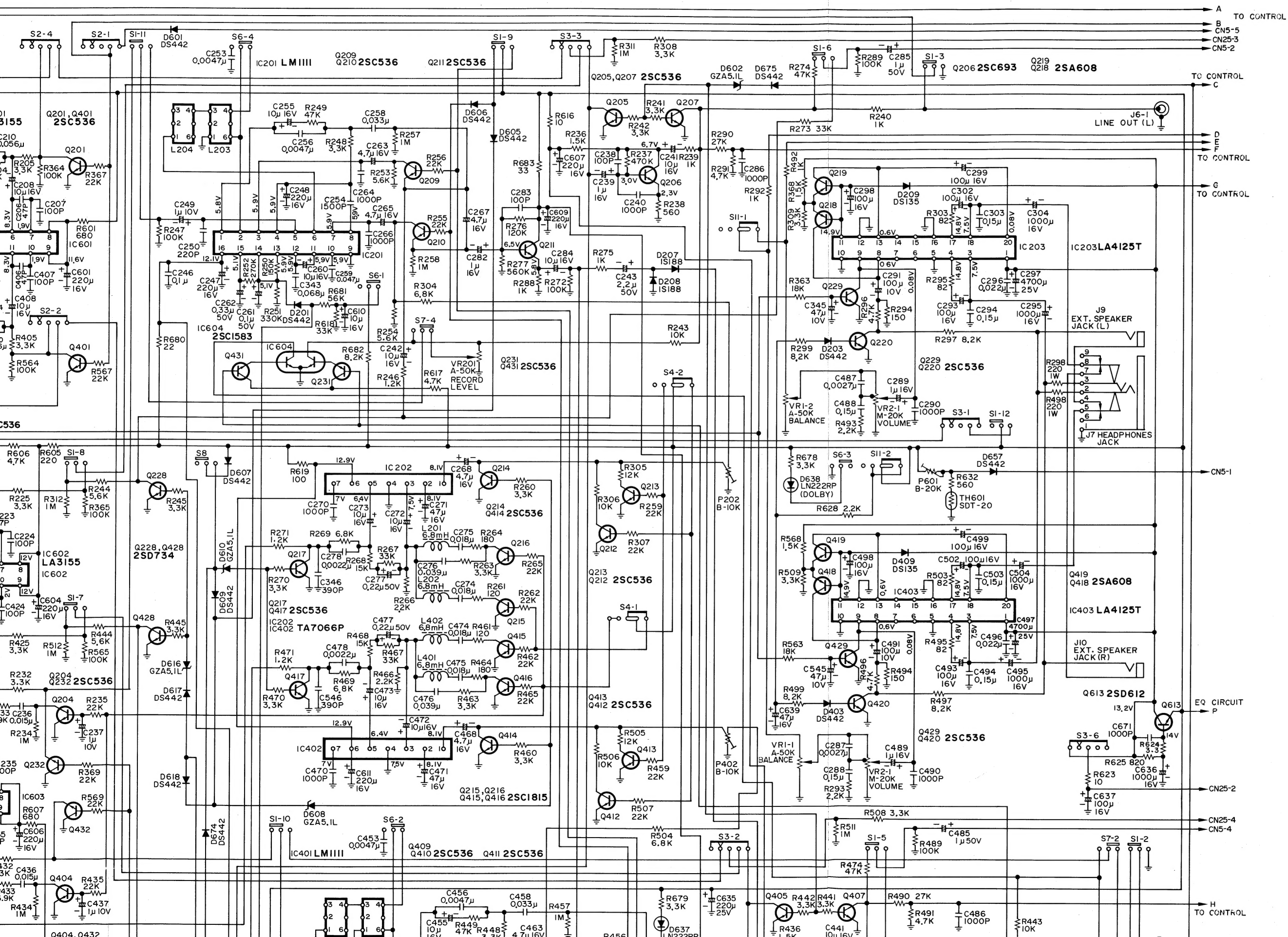
RADIO TUNER SCHEMATIC DIAGRAM

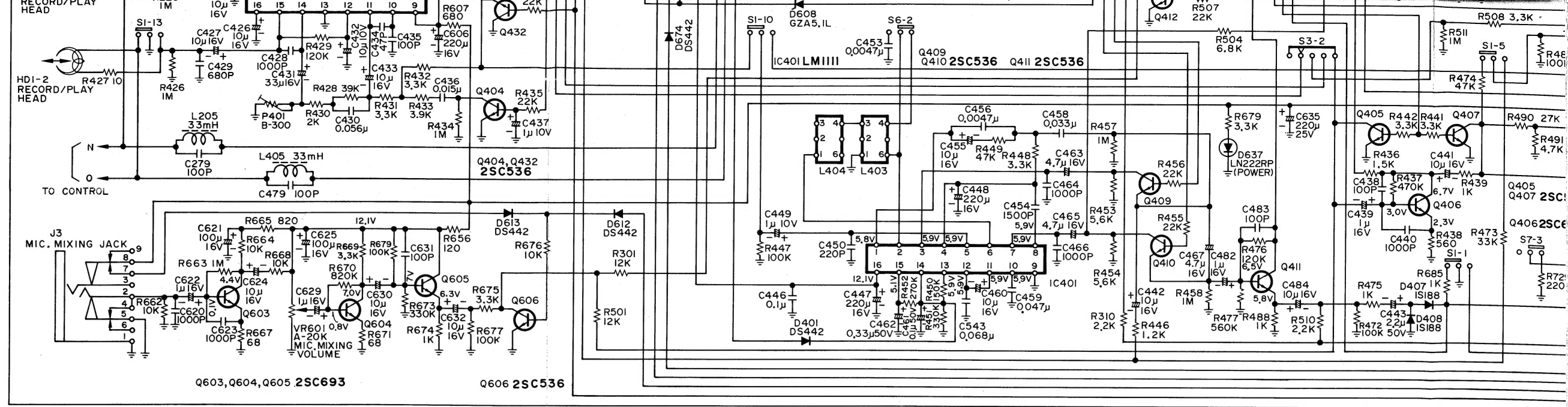


PRE AMPLIFIER SCHEMATIC DIAGRAM

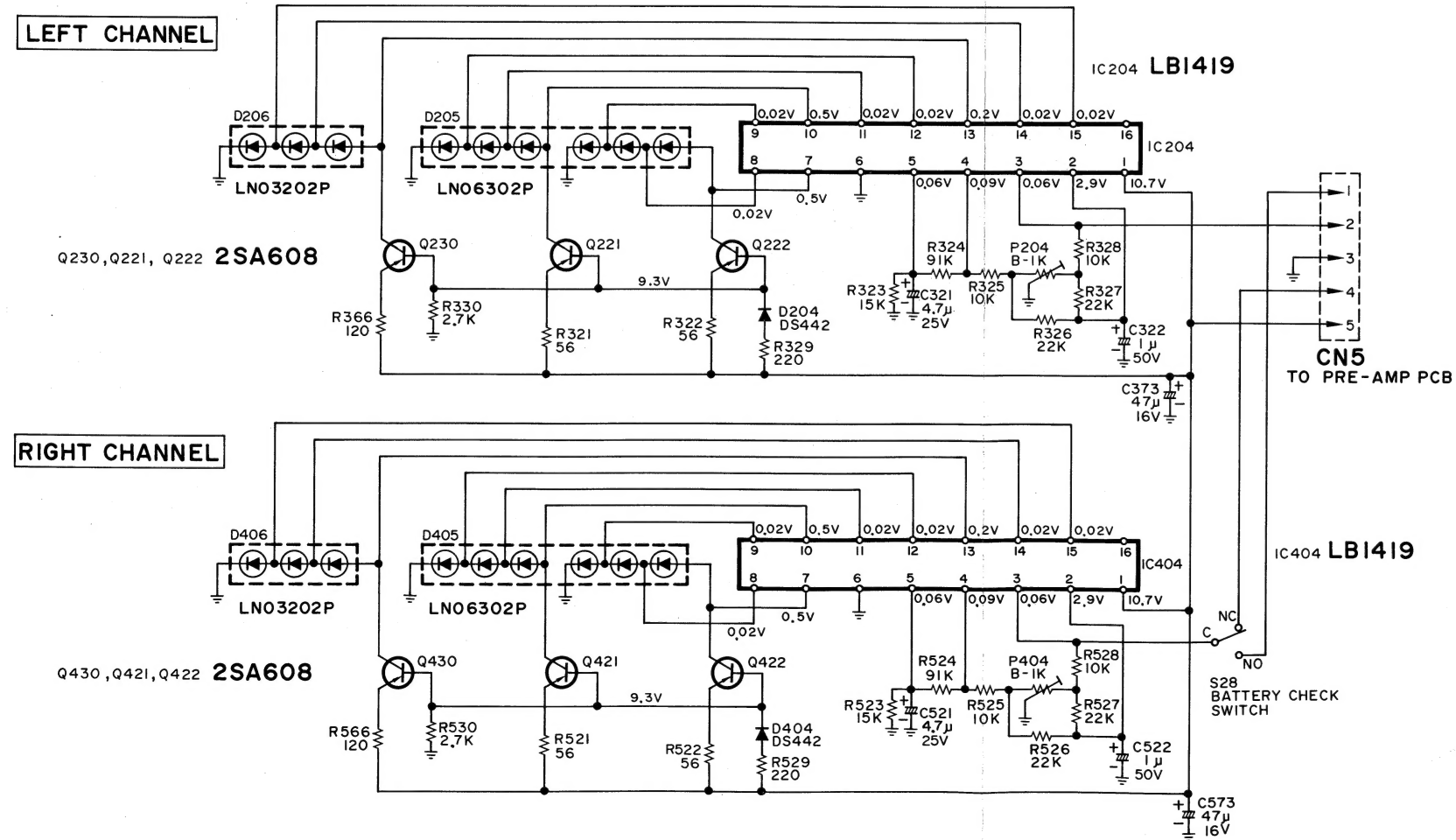


PRE AMPLIFIER SCHEMATIC DIAGRAM





LED METER SCHEMATIC DIAGRAM



FREQUENCY EQ CONTROL

